Balanced Voltage Drop Report
Source: Tyner

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
Tyner		ABC	SRC-Tyner	7.50Y	125.0	0.00	0.00	435.47	0	9305	3069	95	0.00	0.0	0.000	0.000	0	0	0	1700
PL.67910	Tyner	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	190.23	37	4039	1417	94	0.15	0.0	0.005	0.005	0	0	0	661
PL.72919	PL.67910	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	190.23	37	4039	1417	94	0.06	0.0	0.007	0.002	0	0	0	661
---------- Feeder No. 1 (Gray Hawk F1) Beginning with Device PD.11201 ----------																				
PD.11201	PL.72919	ABC	360VWE	7.50Y	125.0	0.00	0.01	190.23	0	4039	1417	94	0.00	0.0	0.007	0.002	0	0	0	661
PL.72920	PD.11201	ABC	336 MCM AC	7.49Y	124.8	0.16	0.17	190.23	37	4039	1417	94	3.18	0.1	0.111	0.104	0	0	0	661
PL.68886	PL.72920	A	#1/0 ACSR	7.49Y	124.8	0.00	0.17	0.00	0	0	0	100	0.00	0.0	0.116	0.005	0	0	0	0
PD.10266	PL.68886	A	65T	7.49Y	124.8	0.00	0.17	0.00	0	0	0	100	0.00	0.0	0.116	0.005	0	0	0	0
PL.68887	PD.10266	A	#1/0 ACSR	7.49Y	124.8	0.00	0.17	0.00	0	0	0	100	0.00	0.0	0.152	0.036	0	0	0	0
PL.67771	PL.72920	ABC	336 MCM AC	7.48Y	124.7	0.18	0.35	190.23	37	4035	1409	94	3.58	0.1	0.229	0.117	0	0	0	661
PL.68739	PL.67771	ABC	336 MCM AC	7.47Y	124.5	0.11	0.46	190.23	37	4032	1401	94	2.22	0.1	0.301	0.073	0	0	0	661
PL.68999	PL.68739	C	#1/0 ACSR	7.47Y	124.5	0.00	0.46	3.05	1	22	6	96	0.00	0.0	0.306	0.005	0	0	0	2
PD.10303	PL.68999	C	65T	7.47Y	124.5	0.00	0.46	3.05	0	22	6	96	0.00	0.0	0.306	0.005	0	0	0	2
PL.69000	PD.10303	C	#1/0 ACSR	7.47Y	124.5	0.00	0.46	3.05	1	22	6	96	0.00	0.0	0.323	0.017	22	6	2	2
PL.68756	PL.68739	ABC	336 MCM AC	7.47Y	124.5	0.09	0.55	189.22	36	4008	1390	94	1.74	0.0	0.359	0.058	0	0	0	659
PL.68757	PL.68756	ABC	336 MCM AC	7.47Y	124.4	0.03	0.58	189.22	36	4006	1386	95	0.60	0.0	0.379	0.020	0	0	0	659
PL.68336	PL.68757	C	#1/0 ACSR	7.47Y	124.4	0.00	0.58	7.20	3	52	14	97	0.00	0.0	0.384	0.005	0	0	0	18
PD.10267	PL.68336	C	65T	7.47Y	124.4	0.00	0.58	7.20	0	52	14	97	0.00	0.0	0.384	0.005	0	0	0	18
PL.68335	PD.10267	C	#1/0 ACSR	7.47Y	124.4	0.00	0.58	0.05	0	0	0	100	0.00	0.0	0.408	0.024	0	0	1	1
PL.68764	PD.10267	C	#1/0 ACSR	7.47Y	124.4	0.00	0.58	7.15	3	52	14	97	0.00	0.0	0.400	0.016	44	12	15	17
PL.68765	PL.68764	C	#1/0 ACSR	7.47Y	124.4	0.00	0.58	1.01	0	7	2	96	0.00	0.0	0.433	0.033	7	2	2	2
PL.67772	PL.68757	ABC	336 MCM AC	7.46Y	124.4	0.05	0.62	186.83	36	3953	1371	94	0.92	0.0	0.411	0.031	0	0	0	641
PL.68337	PL.67772	ABC	336 MCM AC	7.46Y	124.3	0.04	0.66	186.83	36	3952	1369	94	0.76	0.0	0.436	0.026	14	4	4	641
PL.68338	PL.68337	ABC	336 MCM AC	7.46Y	124.3	0.08	0.74	181.70	35	3840	1337	94	1.50	0.0	0.490	0.054	0	0	0	608
PL.67773	PL.68338	ABC	336 MCM AC	7.45Y	124.1	0.12	0.86	181.09	35	3826	1330	94	2.31	0.1	0.574	0.084	0	0	0	603
PL.68345	PL.67773	A	#1/0 ACSR	7.45Y	124.1	0.00	0.86	3.08	1	22	6	96	0.00	0.0	0.588	0.014	0	0	0	3
PL.72947	PL.68345	A	#1/0 ACSR	7.45Y	124.1	0.00	0.86	3.08	1	22	6	96	0.00	0.0	0.613	0.026	13	3	2	3
PL.72948	PL.72947	A	#1/0 ACSR	7.45Y	124.1	0.00	0.87	1.28	1	9	2	98	0.00	0.0	0.635	0.022	0	0	0	1
PL.72949	PL.72948	A	#1/0 ACSR	7.45Y	124.1	0.00	0.87	1.28	1	9	2	98	0.00	0.0	0.687	0.052	9	2	1	1
PL.67774	PL.67773	ABC	336 MCM AC	7.44Y	124.0	0.18	1.04	180.07	35	3801	1319	94	3.37	0.1	0.698	0.124	0	0	0	600

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: Tyner

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.68620	PL.67774	ABC	336 MCM AC	7.43Y	123.8	0.15	1.19	173.87	34	3664	1276	94	2.72	0.1	0.804	0.107	0	0	0	569
PL.69080	PL.68620	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.19	5.16	2	111	29	97	0.00	0.0	0.823	0.019	0	0	0	24
PD.10371	PL.69080	ABC	35L	7.43Y	123.8	0.00	1.19	5.16	15	111	29	97	0.00	0.0	0.823	0.019	0	0	0	24
PL.69081	PD.10371	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.20	5.16	2	111	29	97	0.01	0.0	0.938	0.115	0	0	0	24
PL.68622	PL.69081	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.21	4.98	2	107	28	97	0.01	0.0	1.037	0.099	0	0	0	23
PL.69003	PL.68622	A	#1/0 ACSR	7.43Y	123.8	0.00	1.21	1.64	1	12	3	97	0.00	0.0	1.042	0.005	0	0	0	3
PD.10306	PL.69003	A	15T	7.43Y	123.8	0.00	1.21	1.64	0	12	3	97	0.00	0.0	1.042	0.005	0	0	0	3
PL.69004	PD.10306	A	#1/0 ACSR	7.43Y	123.8	0.00	1.21	1.64	1	12	3	97	0.00	0.0	1.053	0.011	6	2	1	3
PL.68763	PL.69004	A	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.83	0	6	2	95	0.00	0.0	1.092	0.040	6	2	2	2
PL.68623	PL.68622	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.22	4.43	2	95	25	97	0.01	0.0	1.135	0.097	0	0	0	20
PL.68705	PL.68623	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.23	4.43	2	95	25	97	0.01	0.0	1.273	0.139	0	0	0	20
PL.69007	PL.68705	A	#4 ACSR	7.43Y	123.8	0.00	1.23	1.07	1	8	2	97	0.00	0.0	1.278	0.005	0	0	0	2
PD.10308	PL.69007	A	15T	7.43Y	123.8	0.00	1.23	1.07	0	8	2	97	0.00	0.0	1.278	0.005	0	0	0	2
PL.69008	PD.10308	A	#4 ACSR	7.43Y	123.8	0.00	1.23	1.07	1	8	2	97	0.00	0.0	1.315	0.037	4	1	1	2
PL.68762	PL.69008	A	#4 ACSR	7.43Y	123.8	0.00	1.23	0.47	0	3	1	95	0.00	0.0	1.344	0.028	3	1	1	1
PL.68624	PL.68705	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.23	3.65	2	79	21	97	0.00	0.0	1.296	0.022	0	0	0	17
PL.68538	PL.68624	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.24	3.27	1	70	19	97	0.00	0.0	1.386	0.090	0	0	1	16
PL.68539	PL.68538	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.24	3.24	1	70	18	97	0.00	0.0	1.446	0.060	3	1	1	15
PL.69011	PL.68539	C	#4 ACSR	7.43Y	123.8	0.00	1.24	1.51	1	11	3	96	0.00	0.0	1.451	0.005	0	0	0	1
PD.10310	PL.69011	C	15T	7.43Y	123.8	0.00	1.24	1.51	0	11	3	96	0.00	0.0	1.451	0.005	0	0	0	1
PL.69012	PD.10310	C	#4 ACSR	7.43Y	123.8	0.00	1.24	1.51	1	11	3	96	0.00	0.0	1.531	0.080	11	3	1	1
PL.68625	PL.68539	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.24	2.61	1	56	15	97	0.00	0.0	1.547	0.101	0	0	0	13
PL.68890	PL.68625	A	#4 ACSR	7.43Y	123.8	0.00	1.24	2.36	2	17	4	97	0.00	0.0	1.552	0.005	0	0	0	5
PD.10269	PL.68890	A	15T	7.43Y	123.8	0.00	1.24	2.36	0	17	4	97	0.00	0.0	1.552	0.005	0	0	0	5
PL.68891	PD.10269	A	#4 ACSR	7.43Y	123.8	0.00	1.25	2.36	2	17	4	97	0.00	0.0	1.587	0.035	17	4	4	5
PL.68758	PL.68891	A	#4 ACSR	7.43Y	123.8	0.00	1.25	0.00	0	0	0	100	0.00	0.0	1.620	0.033	0	0	1	1
PL.69013	PL.68625	C	#4 ACSR	7.43Y	123.8	0.00	1.24	1.23	1	9	2	98	0.00	0.0	1.552	0.005	0	0	0	1
PD.10311	PL.69013	C	15T	7.43Y	123.8	0.00	1.24	1.23	0	9	2	98	0.00	0.0	1.552	0.005	0	0	0	1
PL.69014	PD.10311	C	#4 ACSR	7.43Y	123.8	0.00	1.25	1.23	1	9	2	98	0.00	0.0	1.583	0.031	9	2	1	1
PL.68759	PL.68625	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.25	1.42	1	30	8	97	0.00	0.0	1.625	0.078	0	0	0	7
PL.68760	PL.68759	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.25	1.42	1	30	8	97	0.00	0.0	1.733	0.108	5	1	2	7

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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.68626	PL.68760	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.25	0.73	0	16	4	97	0.00	0.0	1.801	0.068	0	0	0	2
PL.68892	PL.68626	C	#1/0 ACSR	7.43Y	123.8	0.00	1.25	2.18	1	16	4	97	0.00	0.0	1.805	0.004	0	0	0	2
PD.10270	PL.68892	C	15T	7.43Y	123.8	0.00	1.25	2.18	0	16	4	97	0.00	0.0	1.805	0.004	0	0	0	2
PL.68893	PD.10270	C	#1/0 ACSR	7.42Y	123.7	0.00	1.25	2.18	1	16	4	97	0.00	0.0	1.838	0.034	16	4	2	2
PL.69068	PL.68626	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.25	0.00	0	0	0	100	0.00	0.0	1.844	0.044	0	0	0	0
PD.10364-A	PL.69068	ABC	Open	7.43Y	123.8	0.00	1.25	0.00	0	0	0	100	0.00	0.0	1.844	0.044	0	0	0	0
PL.69016	PL.68760	C	#4 ACSR	7.43Y	123.8	0.00	1.25	1.43	1	10	3	96	0.00	0.0	1.737	0.005	0	0	0	3
PD.10312	PL.69016	C	15T	7.43Y	123.8	0.00	1.25	1.43	0	10	3	96	0.00	0.0	1.737	0.005	0	0	0	3
PL.69015	PD.10312	C	#4 ACSR	7.42Y	123.7	0.00	1.25	1.43	1	10	3	96	0.00	0.0	1.785	0.048	10	3	2	3
PL.68761	PL.69015	C	#4 ACSR	7.42Y	123.7	0.00	1.25	0.00	0	0	0	100	0.00	0.0	1.805	0.020	0	0	1	1
PL.69009	PL.68624	C	#4 ACSR	7.43Y	123.8	0.00	1.23	1.14	1	8	2	97	0.00	0.0	1.300	0.005	0	0	0	1
PD.10309	PL.69009	C	15T	7.43Y	123.8	0.00	1.23	1.14	0	8	2	97	0.00	0.0	1.300	0.005	0	0	0	1
PL.69010	PD.10309	C	#4 ACSR	7.43Y	123.8	0.00	1.23	1.14	1	8	2	97	0.00	0.0	1.318	0.018	8	2	1	1
PL.69006	PL.68705	A	#4 ACSR	7.43Y	123.8	0.00	1.23	1.28	1	9	2	98	0.00	0.0	1.278	0.005	0	0	0	1
PD.10307	PL.69006	A	15T	7.43Y	123.8	0.00	1.23	1.28	0	9	2	98	0.00	0.0	1.278	0.005	0	0	0	1
PL.69005	PD.10307	A	#4 ACSR	7.43Y	123.8	0.00	1.23	1.28	1	9	2	98	0.00	0.0	1.382	0.104	9	2	1	1
PL.68888	PL.69081	A	#1/0 ACSR	7.43Y	123.8	0.00	1.20	0.56	0	4	1	97	0.00	0.0	0.942	0.004	0	0	0	1
PD.10268	PL.68888	A	15T	7.43Y	123.8	0.00	1.20	0.56	0	4	1	97	0.00	0.0	0.942	0.004	0	0	0	1
PL.68889	PD.10268	A	#1/0 ACSR	7.43Y	123.8	0.00	1.20	0.56	0	4	1	97	0.00	0.0	1.000	0.058	4	1	1	1
PL.68352	PL.68620	ABC	336 MCM AC	7.42Y	123.7	0.08	1.27	168.72	33	3550	1240	94	1.37	0.0	0.862	0.057	0	0	0	545
PL.68774	PL.68352	ABC	336 MCM AC	7.42Y	123.6	0.14	1.41	168.44	32	3542	1235	94	2.50	0.1	0.967	0.105	9	2	1	543
PL.68775	PL.68774	ABC	336 MCM AC	7.41Y	123.5	0.10	1.51	168.01	32	3531	1227	94	1.74	0.0	1.040	0.073	0	0	0	542
PL.69017	PL.68775	A	#4 ACSR	7.41Y	123.5	0.00	1.51	4.14	3	30	8	97	0.00	0.0	1.044	0.005	0	0	0	8
PD.10313	PL.69017	A	65T	7.41Y	123.5	0.00	1.51	4.14	0	30	8	97	0.00	0.0	1.044	0.005	0	0	0	8
PL.69018	PD.10313	A	#4 ACSR	7.41Y	123.5	0.00	1.51	4.14	3	30	8	97	0.00	0.0	1.062	0.017	9	2	2	8
PL.68627	PL.69018	A	#4 ACSR	7.41Y	123.5	0.00	1.51	0.01	0	0	0	100	0.00	0.0	1.083	0.021	0	0	2	2
PL.68776	PL.69018	A	#4 ACSR	7.41Y	123.5	0.00	1.51	2.89	2	21	5	97	0.00	0.0	1.096	0.034	14	4	3	4
PL.68777	PL.68776	A	#4 ACSR	7.41Y	123.5	0.00	1.51	0.98	1	7	2	96	0.00	0.0	1.138	0.042	7	2	1	1
PL.68628	PL.68775	ABC	336 MCM AC	7.40Y	123.4	0.13	1.63	166.63	32	3499	1215	94	2.20	0.1	1.134	0.094	0	0	0	534
PL.68451	PL.68628	ABC	336 MCM AC	7.40Y	123.3	0.04	1.67	166.63	32	3497	1210	95	0.70	0.0	1.164	0.030	0	0	0	534
PL.69058	PL.68451	ABC	#4 ACSR	7.40Y	123.3	0.02	1.70	23.88	18	481	223	91	0.10	0.0	1.190	0.027	0	0	0	11

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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.10357	PL.69058	ABC	65T	7.40Y	123.3	0.00	1.70	23.88	0	481	223	91	0.00	0.0	1.190	0.027	0	0	0	11
PL.69059	PD.10357	ABC	#4 ACSR	7.40Y	123.3	0.03	1.72	23.88	18	481	223	91	0.11	0.0	1.220	0.029	0	0	0	11
PL.68882	PL.69059	A	#1/0 ACSR	7.40Y	123.3	0.00	1.72	6.10	3	44	12	96	0.00	0.0	1.224	0.005	0	0	0	8
PD.10264	PL.68882	A	40T	7.40Y	123.3	0.00	1.72	6.10	0	44	12	96	0.00	0.0	1.224	0.005	0	0	0	8
PL.68883	PD.10264	A	#1/0 ACSR	7.40Y	123.3	0.00	1.72	6.10	3	44	12	96	0.00	0.0	1.234	0.009	0	0	0	8
PL.68745	PL.68883	A	#4 ACSR	7.40Y	123.3	0.02	1.75	6.10	5	44	12	96	0.01	0.0	1.323	0.090	7	2	1	8
PL.68746	PL.68745	A	#4 ACSR	7.39Y	123.2	0.01	1.76	5.13	4	37	10	97	0.00	0.0	1.388	0.065	0	0	0	7
PL.68358	PL.68746	A	#4 ACSR	7.39Y	123.2	0.00	1.76	5.13	4	37	10	97	0.00	0.0	1.400	0.011	31	8	6	7
PL.68357	PL.68358	A	#4 ACSR	7.39Y	123.2	0.00	1.76	0.84	1	6	2	95	0.00	0.0	1.471	0.071	6	2	1	1
PL.68353	PL.69059	ABC	#1/0 ACSR	7.40Y	123.3	0.00	1.73	14.10	6	282	136	90	0.01	0.0	1.248	0.028	279	135	1	2
PL.68354	PL.68353	B	#4 ACSR	7.40Y	123.3	0.00	1.73	0.46	0	3	1	95	0.00	0.0	1.260	0.012	3	1	1	1
PL.68747	PL.69059	ABC	#4 ACSR	7.40Y	123.3	0.01	1.74	7.78	6	155	75	90	0.02	0.0	1.267	0.047	0	0	0	1
PL.68748	PL.68747	ABC	#4 ACSR	7.40Y	123.3	0.01	1.75	7.78	6	155	75	90	0.01	0.0	1.338	0.071	155	75	1	1
PL.68452	PL.68451	ABC	336 MCM AC	7.40Y	123.3	0.05	1.72	142.89	28	3015	985	95	0.77	0.0	1.208	0.045	0	0	0	523
PL.68356	PL.68452	ABC	#1/0 ACSR	7.40Y	123.3	0.00	1.72	1.95	1	39	19	90	0.00	0.0	1.230	0.022	39	19	1	1
PL.68355	PL.68452	ABC	336 MCM AC	7.39Y	123.1	0.15	1.87	140.97	27	2976	965	95	2.24	0.1	1.342	0.134	0	0	0	522
PL.68359	PL.68355	ABC	336 MCM AC	7.38Y	123.1	0.05	1.92	140.97	27	2973	960	95	0.78	0.0	1.389	0.046	0	0	0	522
PL.68629	PL.68359	ABC	336 MCM AC	7.38Y	122.9	0.16	2.08	140.57	27	2964	955	95	2.43	0.1	1.535	0.146	0	0	0	521
PL.68706	PL.68629	ABC	336 MCM AC	7.37Y	122.8	0.12	2.20	140.57	27	2962	950	95	1.81	0.1	1.643	0.109	0	0	0	521
PL.68707	PL.68706	ABC	336 MCM AC	7.36Y	122.7	0.06	2.26	140.57	27	2960	946	95	0.89	0.0	1.697	0.053	0	0	0	521
PL.68635	PL.68707	ABC	336 MCM AC	7.36Y	122.7	0.05	2.31	132.09	25	2778	895	95	0.78	0.0	1.749	0.053	0	0	0	488
PL.68360	PL.68635	ABC	336 MCM AC	7.35Y	122.6	0.11	2.42	132.09	25	2777	893	95	1.51	0.1	1.852	0.103	0	0	1	488
PL.68636	PL.68360	ABC	336 MCM AC	7.35Y	122.4	0.16	2.58	131.76	25	2768	888	95	2.35	0.1	2.013	0.160	0	0	0	486
PL.68364	PL.68636	ABC	336 MCM AC	7.34Y	122.3	0.11	2.69	131.76	25	2766	882	95	1.59	0.1	2.121	0.108	0	0	0	486
PL.68710	PL.68364	ABC	336 MCM AC	7.33Y	122.2	0.14	2.83	131.76	25	2764	879	95	1.94	0.1	2.254	0.133	10	3	2	486
PL.68637	PL.68710	ABC	336 MCM AC	7.33Y	122.1	0.07	2.90	121.91	23	2554	816	95	0.89	0.0	2.325	0.071	0	0	0	444
PL.68366	PL.68637	ABC	336 MCM AC	7.32Y	122.0	0.11	3.01	121.91	23	2553	814	95	1.44	0.1	2.441	0.115	8	2	1	444
PL.68646	PL.68366	ABC	336 MCM AC	7.32Y	121.9	0.07	3.08	104.86	20	2189	714	95	0.83	0.0	2.531	0.090	0	0	0	380
PL.68712	PL.68646	ABC	336 MCM AC	7.31Y	121.8	0.09	3.17	104.86	20	2188	712	95	1.02	0.0	2.641	0.111	0	0	0	380
PL.68394	PL.68712	ABC	336 MCM AC	7.30Y	121.7	0.09	3.26	104.86	20	2187	709	95	0.96	0.0	2.745	0.104	0	0	0	380
PL.68713	PL.68394	ABC	336 MCM AC	7.30Y	121.6	0.10	3.36	104.86	20	2186	707	95	1.17	0.1	2.871	0.126	0	0	0	380

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Balanced Voltage Drop Report
Source: Tyner

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.68714	PL.68713	ABC	336 MCM AC	7.29Y	121.6	0.07	3.43	104.86	20	2185	705	95	0.81	0.0	2.959	0.087	0	0	0	380
PL.68898	PL.68714	A	#1/0 ACSR	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	2.963	0.005	0	0	0	1
PD.10322	PL.68898	A	65T	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	2.963	0.005	0	0	0	1
PL.68899	PD.10322	A	#1/0 ACSR	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	3.012	0.049	0	0	1	1
PL.68652	PL.68714	ABC	336 MCM AC	7.29Y	121.5	0.09	3.52	88.69	17	1862	548	96	0.86	0.0	3.089	0.130	8	2	1	377
PL.68900	PL.68652	C	#1/0 ACSR	7.29Y	121.5	0.00	3.52	1.27	1	9	2	98	0.00	0.0	3.094	0.005	0	0	0	1
PD.10323	PL.68900	C	65T	7.29Y	121.5	0.00	3.52	1.27	0	9	2	98	0.00	0.0	3.094	0.005	0	0	0	1
PL.68901	PD.10323	C	#1/0 ACSR	7.29Y	121.5	0.00	3.52	1.27	1	9	2	98	0.00	0.0	3.127	0.033	9	2	1	1
PL.68654	PL.68652	ABC	336 MCM AC	7.28Y	121.4	0.08	3.60	87.89	17	1844	541	96	0.76	0.0	3.205	0.116	0	0	0	375
PL.68715	PL.68654	ABC	336 MCM AC	7.28Y	121.3	0.06	3.66	87.89	17	1843	540	96	0.60	0.0	3.297	0.092	0	0	0	375
PL.68716	PL.68715	ABC	336 MCM AC	7.28Y	121.3	0.06	3.71	87.89	17	1843	538	96	0.57	0.0	3.384	0.087	0	0	0	375
PL.68397	PL.68716	ABC	336 MCM AC	7.28Y	121.3	0.01	3.73	87.89	17	1842	537	96	0.14	0.0	3.406	0.021	0	0	0	375
PL.68398	PL.68397	B	#1/0 ACSR	7.28Y	121.3	0.01	3.74	7.09	3	50	13	97	0.00	0.0	3.449	0.043	0	0	0	10
PL.68399	PL.68398	B	#4 ACSR	7.28Y	121.3	0.00	3.74	7.09	5	50	13	97	0.00	0.0	3.454	0.005	0	0	0	10
PD.10272	PL.68399	B	20T	7.28Y	121.3	0.00	3.74	7.09	0	50	13	97	0.00	0.0	3.454	0.005	0	0	0	10
PL.68656	PD.10272	B	#4 ACSR	7.28Y	121.3	0.00	3.74	5.25	4	37	10	97	0.00	0.0	3.475	0.021	0	0	0	6
PL.68657	PL.68656	B	#4 ACSR	7.27Y	121.2	0.02	3.76	4.40	3	31	8	97	0.01	0.0	3.602	0.127	5	1	1	5
PL.68810	PL.68657	B	#4 ACSR	7.27Y	121.2	0.01	3.77	3.76	3	26	7	97	0.00	0.0	3.638	0.036	0	0	1	4
PL.68811	PL.68810	B	#4 ACSR	7.27Y	121.2	0.01	3.78	3.76	3	26	7	97	0.00	0.0	3.713	0.076	8	2	1	3
PL.68809	PL.68811	B	#4 ACSR	7.27Y	121.2	0.01	3.79	2.68	2	19	5	97	0.00	0.0	3.769	0.055	9	2	1	2
PL.68492	PL.68809	B	#1/0 ACSR	7.27Y	121.2	0.00	3.79	1.44	1	10	3	96	0.00	0.0	3.883	0.114	10	3	1	1
PL.68400	PL.68656	B	#1/0 ACSR	7.28Y	121.3	0.00	3.74	0.85	0	6	2	95	0.00	0.0	3.493	0.018	6	2	1	1
PL.68401	PD.10272	B	#1/0 ACSR	7.28Y	121.3	0.00	3.74	1.83	1	13	3	97	0.00	0.0	3.520	0.066	4	1	2	4
PL.68403	PL.68401	B	#1/0 ACSR	7.28Y	121.3	0.00	3.74	1.16	1	8	2	97	0.00	0.0	3.604	0.085	0	0	0	1
PL.68491	PL.68403	B	#4 ACSR	7.28Y	121.3	0.00	3.74	1.16	1	8	2	97	0.00	0.0	3.647	0.042	8	2	1	1
PL.68402	PL.68401	B	#4 ACSR	7.28Y	121.3	0.00	3.74	0.04	0	0	0	100	0.00	0.0	3.554	0.034	0	0	1	1
PL.68655	PL.68397	ABC	336 MCM AC	7.27Y	121.2	0.09	3.82	85.53	16	1792	523	96	0.88	0.0	3.548	0.143	0	0	0	365
PL.68902	PL.68655	C	#4 ACSR	7.27Y	121.2	0.00	3.82	0.84	1	6	2	95	0.00	0.0	3.553	0.005	0	0	0	4
PD.10324	PL.68902	C	20T	7.27Y	121.2	0.00	3.82	0.84	0	6	2	95	0.00	0.0	3.553	0.005	0	0	0	4
PL.68903	PD.10324	C	#4 ACSR	7.27Y	121.2	0.00	3.82	0.84	1	6	2	95	0.00	0.0	3.583	0.030	6	2	4	4
PL.68787	PL.68655	ABC	336 MCM AC	7.27Y	121.1	0.05	3.87	80.19	15	1679	491	96	0.40	0.0	3.623	0.074	1	0	1	337

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Balanced Voltage Drop Report
Source: Tyner

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.68788	PL.68787	ABC	336 MCM AC	7.27Y	121.1	0.02	3.89	80.15	15	1677	490	96	0.21	0.0	3.661	0.038	0	0	0	336
PL.68878	PL.68788	ABC	336 MCM AC	7.26Y	121.0	0.06	3.95	79.42	15	1662	486	96	0.56	0.0	3.767	0.107	19	9	1	330
PL.68879	PL.68878	ABC	336 MCM AC	7.26Y	121.0	0.05	4.00	78.45	15	1642	475	96	0.45	0.0	3.854	0.087	1	0	3	329
PL.68791	PL.68879	ABC	336 MCM AC	7.26Y	121.0	0.03	4.04	78.42	15	1641	474	96	0.30	0.0	3.912	0.058	0	0	0	326
PL.69086	PL.68791	ABC	336 MCM AC	7.26Y	120.9	0.03	4.07	78.27	15	1637	472	96	0.30	0.0	3.970	0.058	0	0	0	325
PL.69087	PL.69086	ABC	336 MCM AC	7.25Y	120.9	0.02	4.09	78.27	15	1637	472	96	0.18	0.0	4.006	0.036	0	0	0	325
PL.68411	PL.69087	ABC	336 MCM AC	7.25Y	120.9	0.04	4.14	77.46	15	1620	467	96	0.37	0.0	4.078	0.073	3	1	2	324
PL.68493	PL.68411	ABC	#2 ACSR	7.25Y	120.9	0.00	4.14	3.89	2	77	36	91	0.00	0.0	4.106	0.027	71	35	1	2
PL.68494	PL.68493	C	#2 ACSR	7.25Y	120.9	0.00	4.14	0.78	0	5	1	98	0.00	0.0	4.117	0.012	5	1	1	1
PL.69070	PL.68411	ABC	336 MCM AC	7.25Y	120.8	0.03	4.16	73.48	14	1540	429	96	0.24	0.0	4.130	0.052	0	0	0	320
PD.10365-A	PL.69070	ABC	Closed	7.25Y	120.8	0.00	4.16	73.48	0	1540	429	96	0.00	0.0	4.130	0.052	0	0	0	320
PD.10365-B	PD.10365-A	ABC	Closed	7.25Y	120.8	0.00	4.16	73.48	0	1540	429	96	0.00	0.0	4.130	0.052	0	0	0	320
PL.69071	PD.10365-B	ABC	336 MCM AC	7.25Y	120.8	0.00	4.17	73.48	14	1540	429	96	0.02	0.0	4.135	0.005	0	0	0	320
PL.68793	PL.69071	C	6 A (CWC)	7.25Y	120.8	0.02	4.18	10.21	7	72	19	97	0.01	0.0	4.174	0.039	11	3	4	15
PL.68943	PL.68793	C	6 A (CWC)	7.25Y	120.8	0.00	4.18	8.63	6	61	16	97	0.00	0.0	4.178	0.005	0	0	0	11
PD.10274	PL.68943	C	65T	7.25Y	120.8	0.00	4.18	8.63	0	60	16	97	0.00	0.0	4.178	0.005	0	0	0	11
PL.68944	PD.10274	C	6 A (CWC)	7.25Y	120.8	0.02	4.20	8.63	6	60	16	97	0.01	0.0	4.240	0.062	24	6	2	11
PL.68794	PL.68944	C	6 A (CWC)	7.25Y	120.8	0.02	4.22	5.27	4	37	10	97	0.01	0.0	4.336	0.096	9	2	1	9
PL.68731	PL.68794	C	6 A (CWC)	7.25Y	120.8	0.00	4.23	1.54	1	11	3	96	0.00	0.0	4.361	0.025	0	0	0	2
PL.68412	PL.68731	C	6 A (CWC)	7.25Y	120.8	0.00	4.23	1.54	1	11	3	96	0.00	0.0	4.446	0.086	6	1	1	2
PL.68416	PL.68412	C	#4 ACSR	7.25Y	120.8	0.00	4.23	0.75	1	5	1	98	0.00	0.0	4.481	0.035	5	1	1	1
PL.68413	PL.68794	C	6 A (CWC)	7.25Y	120.8	0.01	4.23	2.46	2	17	5	96	0.00	0.0	4.400	0.064	2	0	1	6
PL.68415	PL.68413	C	6 A (CWC)	7.25Y	120.8	0.00	4.23	2.23	2	16	4	97	0.00	0.0	4.421	0.021	0	0	0	5
PL.68795	PL.68415	C	6 A (CWC)	7.25Y	120.8	0.00	4.23	1.01	1	7	2	96	0.00	0.0	4.439	0.018	0	0	1	2
PL.68796	PL.68795	C	6 A (CWC)	7.25Y	120.8	0.00	4.23	1.01	1	7	2	96	0.00	0.0	4.474	0.035	7	2	1	1
PL.68945	PL.68415	C	#1/0 ACSR	7.25Y	120.8	0.00	4.23	1.22	1	9	2	98	0.00	0.0	4.440	0.019	0	0	0	3
PD.10275	PL.68945	C	40T	7.25Y	120.8	0.00	4.23	1.22	0	9	2	98	0.00	0.0	4.440	0.019	0	0	0	3
PL.68946	PD.10275	C	#1/0 ACSR	7.25Y	120.8	0.00	4.24	1.22	1	9	2	98	0.00	0.0	4.565	0.126	9	2	3	3
PL.68704	PL.69071	ABC	336 MCM AC	7.25Y	120.8	0.00	4.17	0.00	0	0	0	100	0.00	0.0	4.140	0.005	0	0	0	0
PD.6125-B	PL.68704	ABC	Open	7.25Y	120.8	0.00	4.17	0.00	0	0	0	100	0.00	0.0	4.140	0.005	0	0	0	0
PL.69072	PL.69071	ABC	336 MCM AC	7.25Y	120.8	0.00	4.17	70.08	14	1468	410	96	0.02	0.0	4.139	0.005	0	0	0	305

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Balanced Voltage Drop Report
Source: Tyner

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.10366-A	PL.69072	ABC	Closed	7.25Y	120.8	0.00	4.17	70.08	0	1468	410	96	0.00	0.0	4.139	0.005	0	0	0	305
PD.10366-B	PD.10366-A	ABC	Closed	7.25Y	120.8	0.00	4.17	70.08	0	1468	410	96	0.00	0.0	4.139	0.005	0	0	0	305
PL.69073	PD.10366-B	ABC	336 MCM AC	7.25Y	120.8	0.01	4.18	70.08	14	1468	410	96	0.10	0.0	4.163	0.024	4	1	2	305
PL.68792	PL.69073	ABC	336 MCM AC	7.25Y	120.8	0.04	4.22	69.89	13	1464	408	96	0.35	0.0	4.247	0.084	0	0	0	303
PL.68662	PL.68792	ABC	336 MCM AC	7.24Y	120.7	0.03	4.26	68.87	13	1442	402	96	0.24	0.0	4.308	0.060	0	0	0	301
PL.68417	PL.68662	ABC	336 MCM AC	7.24Y	120.7	0.04	4.30	68.87	13	1442	401	96	0.35	0.0	4.395	0.087	0	0	0	301
PL.68914	PL.68417	C	#1/0 ACSR	7.24Y	120.7	0.00	4.30	2.66	1	19	5	97	0.00	0.0	4.400	0.005	0	0	0	2
PD.10330	PL.68914	C	20T	7.24Y	120.7	0.00	4.30	2.66	0	19	5	97	0.00	0.0	4.400	0.005	0	0	0	2
PL.68915	PD.10330	C	#1/0 ACSR	7.24Y	120.7	0.00	4.30	2.66	1	19	5	97	0.00	0.0	4.410	0.010	13	3	1	2
PL.68797	PL.68915	C	#1/0 ACSR	7.24Y	120.7	0.00	4.30	0.78	0	5	1	98	0.00	0.0	4.514	0.104	5	1	1	1
PL.68664	PL.68417	ABC	336 MCM AC	7.24Y	120.7	0.03	4.33	66.76	13	1397	389	96	0.25	0.0	4.461	0.066	0	0	0	293
PL.68916	PL.68664	A	#4 ACSR	7.24Y	120.7	0.00	4.33	1.62	1	11	3	96	0.00	0.0	4.466	0.005	0	0	0	1
PD.10331	PL.68916	A	65T	7.24Y	120.7	0.00	4.33	1.62	0	11	3	96	0.00	0.0	4.466	0.005	0	0	0	1
PL.68917	PD.10331	A	#4 ACSR	7.24Y	120.7	0.00	4.33	1.62	1	11	3	96	0.00	0.0	4.500	0.034	11	3	1	1
PL.68666	PL.68664	ABC	336 MCM AC	7.24Y	120.6	0.03	4.36	66.22	13	1386	385	96	0.19	0.0	4.513	0.052	0	0	0	292
PL.68422	PL.68666	ABC	#4 ACSR	7.24Y	120.6	0.00	4.36	0.54	0	11	3	96	0.00	0.0	4.532	0.018	11	3	2	4
PL.68918	PL.68422	A	#4 ACSR	7.24Y	120.6	0.00	4.36	0.10	0	1	0	100	0.00	0.0	4.536	0.005	0	0	0	2
PD.10332	PL.68918	A	65T	7.24Y	120.6	0.00	4.36	0.10	0	1	0	100	0.00	0.0	4.536	0.005	0	0	0	2
PL.68919	PD.10332	A	#4 ACSR	7.24Y	120.6	0.00	4.36	0.10	0	1	0	100	0.00	0.0	4.553	0.016	1	0	2	2
PL.69064	PL.68666	ABC	#4 ACSR	7.24Y	120.6	0.00	4.36	0.53	0	11	3	96	0.00	0.0	4.518	0.005	0	0	0	2
PD.10361	PL.69064	ABC	65T	7.24Y	120.6	0.00	4.36	0.53	0	11	3	96	0.00	0.0	4.518	0.005	0	0	0	2
PL.69065	PD.10361	ABC	#4 ACSR	7.24Y	120.6	0.00	4.36	0.53	0	11	3	96	0.00	0.0	4.548	0.030	10	3	1	2
PL.68516	PL.69065	ABC	#4 ACSR	7.24Y	120.6	0.00	4.36	0.07	0	1	1	71	0.00	0.0	4.575	0.026	0	0	0	1
PL.68424	PL.68516	ABC	#4 ACSR	7.24Y	120.6	0.00	4.36	0.07	0	1	1	71	0.00	0.0	4.690	0.115	1	1	1	1
PL.68423	PL.68666	ABC	336 MCM AC	7.24Y	120.6	0.03	4.39	65.15	13	1363	378	96	0.20	0.0	4.568	0.055	0	0	0	286
PL.68667	PL.68423	ABC	336 MCM AC	7.24Y	120.6	0.02	4.40	62.97	12	1317	366	96	0.14	0.0	4.608	0.041	1	0	1	276
PL.68668	PL.68667	ABC	336 MCM AC	7.23Y	120.6	0.02	4.42	61.85	12	1294	359	96	0.11	0.0	4.641	0.033	0	0	0	268
PL.68670	PL.68668	ABC	336 MCM AC	7.23Y	120.5	0.03	4.45	41.57	8	868	246	96	0.16	0.0	4.751	0.110	0	0	0	179
PL.68525	PL.68670	ABC	336 MCM AC	7.23Y	120.5	0.00	4.46	3.86	1	81	21	97	0.00	0.0	4.859	0.108	6	2	2	16
PL.68526	PL.68525	ABC	336 MCM AC	7.23Y	120.5	0.00	4.46	3.59	1	75	20	97	0.00	0.0	4.914	0.055	0	0	0	14
PL.68681	PL.68526	ABC	336 MCM AC	7.23Y	120.5	0.00	4.46	2.99	1	63	17	97	0.00	0.0	4.939	0.026	0	0	0	13

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Balanced Voltage Drop Report
Source: Tyner

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.68527	PL.68681	ABC	336 MCM AC	7.23Y	120.5	0.00	4.46	2.10	0	44	12	96	0.00	0.0	4.981	0.042	3	1	1	10
PL.68528	PL.68527	ABC	336 MCM AC	7.23Y	120.5	0.00	4.46	1.96	0	41	11	97	0.00	0.0	5.004	0.023	9	2	1	9
PL.68529	PL.68528	ABC	336 MCM AC	7.23Y	120.5	0.00	4.46	1.53	0	32	8	97	0.00	0.0	5.039	0.035	0	0	0	8
PL.69066	PL.68529	ABC	336 MCM AC	7.23Y	120.5	0.00	4.46	0.00	0	0	0	100	0.00	0.0	5.073	0.034	0	0	0	0
PD.10362-A	PL.69066	ABC	Open	7.23Y	120.5	0.00	4.46	0.00	0	0	0	100	0.00	0.0	5.073	0.034	0	0	0	0
PL.69048	PL.68529	A	#4 ACSR	7.23Y	120.5	0.00	4.46	1.35	1	9	2	98	0.00	0.0	5.044	0.005	0	0	0	1
PD.10352	PL.69048	A	65T	7.23Y	120.5	0.00	4.46	1.35	0	9	2	98	0.00	0.0	5.044	0.005	0	0	0	1
PL.69049	PD.10352	A	#4 ACSR	7.23Y	120.5	0.00	4.46	1.35	1	9	2	98	0.00	0.0	5.071	0.028	9	2	1	1
PL.69050	PL.68529	C	#1/0 ACSR	7.23Y	120.5	0.00	4.46	3.24	1	23	6	97	0.00	0.0	5.045	0.006	0	0	0	7
PD.10353	PL.69050	C	65T	7.23Y	120.5	0.00	4.46	3.24	0	23	6	97	0.00	0.0	5.045	0.006	0	0	0	7
PL.69051	PD.10353	C	#1/0 ACSR	7.23Y	120.5	0.00	4.46	3.24	1	23	6	97	0.00	0.0	5.066	0.021	7	2	2	7
PL.68847	PL.69051	C	#1/0 ACSR	7.23Y	120.5	0.00	4.46	2.19	1	15	4	97	0.00	0.0	5.142	0.076	8	2	3	5
PL.68530	PL.68847	C	#1/0 ACSR	7.23Y	120.5	0.00	4.47	1.08	0	8	2	97	0.00	0.0	5.228	0.087	8	2	2	2
PL.69046	PL.68681	C	#1/0 ACSR	7.23Y	120.5	0.00	4.46	1.46	1	10	3	96	0.00	0.0	4.944	0.005	0	0	0	2
PD.10351	PL.69046	C	65T	7.23Y	120.5	0.00	4.46	1.46	0	10	3	96	0.00	0.0	4.944	0.005	0	0	0	2
PL.69047	PD.10351	C	#1/0 ACSR	7.23Y	120.5	0.00	4.46	1.46	1	10	3	96	0.00	0.0	4.960	0.016	0	0	1	2
PL.68449	PL.69047	C	#4 ACSR	7.23Y	120.5	0.00	4.46	1.46	1	10	3	96	0.00	0.0	5.015	0.055	0	0	0	1
PL.68682	PL.68449	C	#4 ACSR	7.23Y	120.5	0.00	4.46	0.00	0	0	0	100	0.00	0.0	5.061	0.047	0	0	0	0
PL.68496	PL.68682	C	#4 ACSR	7.23Y	120.5	0.00	4.46	0.00	0	0	0	100	0.00	0.0	5.177	0.116	0	0	0	0
PL.68450	PL.68449	C	#4 ACSR	7.23Y	120.5	0.00	4.46	1.46	1	10	3	96	0.00	0.0	5.051	0.036	10	3	1	1
PL.69044	PL.68681	A	#4 ACSR	7.23Y	120.5	0.00	4.46	1.20	1	8	2	97	0.00	0.0	4.944	0.005	0	0	0	1
PD.10350	PL.69044	A	65T	7.23Y	120.5	0.00	4.46	1.20	0	8	2	97	0.00	0.0	4.944	0.005	0	0	0	1
PL.69045	PD.10350	A	#4 ACSR	7.23Y	120.5	0.00	4.46	1.20	1	8	2	97	0.00	0.0	4.951	0.008	8	2	1	1
PL.69042	PL.68526	A	#1/0 ACSR	7.23Y	120.5	0.00	4.46	1.80	1	13	3	97	0.00	0.0	4.918	0.005	0	0	0	1
PD.10349	PL.69042	A	65T	7.23Y	120.5	0.00	4.46	1.80	0	13	3	97	0.00	0.0	4.918	0.005	0	0	0	1
PL.69043	PD.10349	A	#1/0 ACSR	7.23Y	120.5	0.00	4.46	1.80	1	13	3	97	0.00	0.0	4.954	0.036	13	3	1	1
PL.68441	PL.68670	ABC	#1/0 ACSR	7.23Y	120.5	0.03	4.48	37.71	16	787	224	96	0.17	0.0	4.794	0.044	0	0	0	163
PD.10374	PL.68441	ABC	70L	7.23Y	120.5	0.00	4.48	37.71	54	787	224	96	0.00	0.0	4.794	0.044	0	0	0	163
PL.68703	PD.10374	ABC	#1/0 ACSR	7.23Y	120.5	0.00	4.48	37.71	16	787	224	96	0.01	0.0	4.796	0.002	58	24	3	163
PL.68880	PL.68703	ABC	#1/0 ACSR	7.23Y	120.5	0.00	4.49	4.37	2	92	24	97	0.00	0.0	4.835	0.039	29	8	5	15
PL.68881	PL.68880	ABC	#1/0 ACSR	7.23Y	120.5	0.00	4.49	2.96	1	62	16	97	0.00	0.0	4.840	0.004	0	0	1	10

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Balanced Voltage Drop Report
Source: Tyner

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.68971	PL.68881	B	6 A (CWC)	7.23Y	120.5	0.00	4.49	8.88	6	62	16	97	0.00	0.0	4.845	0.005	0	0	0	9
PD.10289	PL.68971	B	40T	7.23Y	120.5	0.00	4.49	8.88	0	62	16	97	0.00	0.0	4.845	0.005	0	0	0	9
PL.68972	PD.10289	B	6 A (CWC)	7.23Y	120.5	0.03	4.52	8.88	6	62	16	97	0.02	0.0	4.937	0.092	9	2	1	9
PL.68505	PL.68972	B	6 A (CWC)	7.23Y	120.5	0.01	4.53	7.58	5	53	14	97	0.00	0.0	4.976	0.039	19	5	4	8
PL.68507	PL.68505	B	6 A (CWC)	7.23Y	120.5	0.00	4.54	3.43	2	24	6	97	0.00	0.0	5.021	0.044	17	4	1	2
PL.68508	PL.68507	B	#2 ACSR	7.23Y	120.5	0.00	4.54	1.06	1	7	2	96	0.00	0.0	5.047	0.026	7	2	1	1
PL.68506	PL.68505	B	8 A (CWC)	7.23Y	120.5	0.00	4.54	1.47	1	10	3	96	0.00	0.0	5.050	0.073	10	3	2	2
PL.68683	PL.68703	ABC	#1/0 ACSR	7.23Y	120.5	0.05	4.53	29.14	13	609	169	96	0.22	0.0	4.892	0.096	0	0	0	141
PL.68442	PL.68683	A	6 A (CWC)	7.23Y	120.5	0.00	4.54	4.39	3	31	8	97	0.00	0.0	4.897	0.005	0	0	0	6
PD.10286	PL.68442	A	40T	7.23Y	120.5	0.00	4.54	4.39	0	31	8	97	0.00	0.0	4.897	0.005	0	0	0	6
PL.68443	PD.10286	A	#4 ACSR	7.23Y	120.5	0.00	4.54	1.59	1	11	3	96	0.00	0.0	4.945	0.048	11	3	2	2
PL.68845	PD.10286	A	6 A (CWC)	7.23Y	120.5	0.01	4.54	2.80	2	20	5	97	0.00	0.0	4.959	0.062	9	2	3	4
PL.68846	PL.68845	A	6 A (CWC)	7.23Y	120.5	0.00	4.54	1.53	1	11	3	96	0.00	0.0	4.986	0.027	11	3	1	1
PL.68684	PL.68683	ABC	#1/0 ACSR	7.22Y	120.4	0.05	4.59	27.68	12	578	160	96	0.22	0.0	5.000	0.108	0	0	0	135
PL.68444	PL.68684	B	6 A (CWC)	7.22Y	120.4	0.06	4.65	12.89	9	90	24	97	0.04	0.0	5.099	0.099	0	0	0	24
PL.68953	PL.68444	B	6 A (CWC)	7.22Y	120.4	0.00	4.65	12.89	9	90	24	97	0.00	0.0	5.104	0.005	0	0	0	24
PD.10279	PL.68953	B	40T	7.22Y	120.4	0.00	4.65	12.89	0	90	24	97	0.00	0.0	5.104	0.005	0	0	0	24
PL.68954	PD.10279	B	6 A (CWC)	7.22Y	120.3	0.07	4.72	12.89	9	90	24	97	0.05	0.1	5.231	0.127	3	1	1	24
PL.68534	PL.68954	B	6 A (CWC)	7.21Y	120.2	0.05	4.78	12.50	9	87	23	97	0.03	0.0	5.322	0.092	0	0	0	23
PL.68723	PL.68534	B	6 A (CWC)	7.21Y	120.2	0.07	4.84	12.50	9	87	23	97	0.04	0.1	5.440	0.118	0	0	0	23
PL.68618	PL.68723	B	6 A (CWC)	7.21Y	120.1	0.02	4.86	6.33	5	44	12	96	0.01	0.0	5.517	0.077	0	0	0	10
PL.68619	PL.68618	B	#4 ACSR	7.21Y	120.1	0.00	4.87	0.79	1	6	1	99	0.00	0.0	5.575	0.058	6	1	1	1
PL.68702	PL.68618	B	6 A (CWC)	7.21Y	120.1	0.02	4.88	5.53	4	39	10	97	0.01	0.0	5.591	0.074	0	0	0	9
PL.67749	PL.68702	B	6 A (CWC)	7.20Y	120.1	0.04	4.93	5.53	4	39	10	97	0.01	0.0	5.761	0.169	0	0	0	9
PL.67751	PL.67749	B	6 A (CWC)	7.20Y	120.1	0.01	4.94	2.54	2	18	5	96	0.00	0.0	5.842	0.081	0	0	0	4
PL.68725	PL.67751	B	6 A (CWC)	7.20Y	120.1	0.01	4.95	2.54	2	18	5	96	0.00	0.0	5.957	0.115	0	0	0	4
PL.68724	PL.68725	B	6 A (CWC)	7.20Y	120.0	0.02	4.96	2.54	2	18	5	96	0.00	0.0	6.092	0.135	0	0	0	4
PL.67752	PL.68724	B	6 A (CWC)	7.20Y	120.0	0.00	4.97	0.97	1	7	2	96	0.00	0.0	6.131	0.039	7	2	2	2
PL.67753	PL.68724	B	#4 ACSR	7.20Y	120.0	0.01	4.98	1.57	1	11	3	96	0.00	0.0	6.260	0.168	2	0	1	2
PL.67754	PL.67753	B	#4 ACSR	7.20Y	120.0	0.00	4.98	1.32	1	9	2	98	0.00	0.0	6.312	0.052	9	2	1	1
PL.67750	PL.67749	B	6 A (CWC)	7.20Y	120.1	0.00	4.93	3.00	2	21	6	96	0.00	0.0	5.798	0.037	16	4	3	5

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Balanced Voltage Drop Report
Source: Tyner

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.68852	PL.67750	B	#4 ACSR	7.20Y	120.1	0.00	4.93	0.74	1	5	1	98	0.00	0.0	5.814	0.016	5	1	1	2
PL.68853	PL.68852	B	#4 ACSR	7.20Y	120.1	0.00	4.93	0.00	0	0	0	100	0.00	0.0	5.837	0.023	0	0	1	1
PL.68614	PL.68723	B	6 A (CWC)	7.21Y	120.1	0.03	4.87	6.17	4	43	11	97	0.01	0.0	5.541	0.100	0	0	0	13
PL.68699	PL.68614	B	6 A (CWC)	7.21Y	120.1	0.03	4.90	3.76	3	26	7	97	0.01	0.0	5.703	0.162	0	0	0	7
PL.68851	PL.68699	B	#1/0 ACSR	7.21Y	120.1	0.00	4.90	1.39	1	10	3	96	0.00	0.0	5.758	0.055	6	1	1	2
PL.68850	PL.68851	B	#1/0 ACSR	7.21Y	120.1	0.00	4.90	0.58	0	4	1	97	0.00	0.0	5.785	0.027	4	1	1	1
PL.68848	PL.68699	B	6 A (CWC)	7.21Y	120.1	0.00	4.90	2.38	2	17	4	97	0.00	0.0	5.733	0.030	3	1	2	5
PL.68849	PL.68848	B	6 A (CWC)	7.21Y	120.1	0.00	4.91	1.95	1	14	4	96	0.00	0.0	5.783	0.050	0	0	0	3
PL.68701	PL.68849	B	6 A (CWC)	7.21Y	120.1	0.00	4.91	1.05	1	7	2	96	0.00	0.0	5.859	0.076	0	0	1	2
PL.68616	PL.68701	B	#4 ACSR	7.21Y	120.1	0.00	4.91	1.05	1	7	2	96	0.00	0.0	5.941	0.083	7	2	1	1
PL.68615	PL.68849	B	#4 ACSR	7.21Y	120.1	0.00	4.91	0.89	1	6	2	95	0.00	0.0	5.815	0.032	6	2	1	1
PL.68617	PL.68614	B	6 A (CWC)	7.21Y	120.1	0.01	4.88	2.41	2	17	4	97	0.00	0.0	5.636	0.095	1	0	2	6
PL.68612	PL.68617	B	#4 ACSR	7.21Y	120.1	0.01	4.89	2.23	2	16	4	97	0.00	0.0	5.696	0.060	0	0	0	4
PL.68700	PL.68612	B	#4 ACSR	7.21Y	120.1	0.00	4.89	0.70	1	5	1	98	0.00	0.0	5.760	0.064	5	1	2	2
PL.68613	PL.68612	B	#4 ACSR	7.21Y	120.1	0.00	4.89	1.54	1	11	3	96	0.00	0.0	5.785	0.089	11	3	2	2
PL.68728	PL.68684	ABC	#1/0 ACSR	7.22Y	120.4	0.01	4.60	23.38	10	488	136	96	0.03	0.0	5.022	0.022	0	0	0	111
PL.68531	PL.68728	ABC	#1/0 ACSR	7.22Y	120.4	0.02	4.62	21.32	9	445	125	96	0.07	0.0	5.077	0.055	7	2	2	105
PL.68532	PL.68531	ABC	#1/0 ACSR	7.22Y	120.3	0.03	4.65	20.98	9	438	123	96	0.11	0.0	5.167	0.091	0	0	0	103
PL.68729	PL.68532	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.67	20.96	9	437	123	96	0.04	0.0	5.201	0.034	0	0	0	102
PL.68730	PL.68729	ABC	#1/0 ACSR	7.22Y	120.3	0.02	4.69	20.96	9	437	123	96	0.06	0.0	5.255	0.054	0	0	0	100
PL.68685	PL.68730	ABC	#1/0 ACSR	7.22Y	120.3	0.06	4.74	20.69	9	431	121	96	0.17	0.0	5.404	0.150	0	0	0	98
PL.68686	PL.68685	ABC	#1/0 ACSR	7.21Y	120.2	0.04	4.78	20.06	9	418	117	96	0.11	0.0	5.504	0.099	0	0	0	96
PL.68726	PL.68686	ABC	#1/0 ACSR	7.21Y	120.2	0.05	4.83	20.06	9	418	117	96	0.15	0.0	5.642	0.139	0	0	0	96
PL.68607	PL.68726	ABC	#1/0 ACSR	7.21Y	120.1	0.04	4.87	19.75	9	411	115	96	0.12	0.0	5.756	0.114	0	0	0	95
PL.68687	PL.68607	ABC	#1/0 ACSR	7.21Y	120.1	0.02	4.88	19.31	8	402	113	96	0.05	0.0	5.803	0.047	13	3	3	93
PL.68979	PL.68687	C	#2 ACSR	7.21Y	120.1	0.00	4.88	0.04	0	0	0	100	0.00	0.0	5.808	0.005	0	0	0	2
PD.10293	PL.68979	C	20T	7.21Y	120.1	0.00	4.88	0.04	0	0	0	100	0.00	0.0	5.808	0.005	0	0	0	2
PL.68980	PD.10293	C	#2 ACSR	7.21Y	120.1	0.00	4.88	0.04	0	0	0	100	0.00	0.0	5.825	0.017	0	0	2	2
PL.68857	PL.68687	ABC	#1/0 ACSR	7.21Y	120.1	0.02	4.90	18.69	8	389	109	96	0.04	0.0	5.851	0.047	11	3	1	88
PL.68858	PL.68857	ABC	#1/0 ACSR	7.20Y	120.1	0.02	4.92	18.14	8	378	106	96	0.04	0.0	5.902	0.052	4	1	2	87
PL.68688	PL.68858	ABC	#1/0 ACSR	7.20Y	120.1	0.03	4.95	17.78	8	370	104	96	0.08	0.0	5.995	0.093	0	0	0	83

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: Tyner

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.68860	PL.68688	ABC	#1/0 ACSR	7.20Y	120.1	0.00	4.95	2.92	1	59	22	94	0.00	0.0	6.037	0.042	9	2	3	10
PL.69062	PL.68860	ABC	#1/0 ACSR	7.20Y	120.1	0.00	4.95	2.48	1	50	19	93	0.00	0.0	6.041	0.005	0	0	0	7
PD.10359	PL.69062	ABC	20T	7.20Y	120.1	0.00	4.95	2.48	0	50	19	93	0.00	0.0	6.041	0.005	0	0	0	7
PL.69063	PD.10359	ABC	#1/0 ACSR	7.20Y	120.0	0.00	4.95	2.48	1	50	19	93	0.00	0.0	6.102	0.061	13	3	4	7
PL.68859	PL.69063	ABC	#1/0 ACSR	7.20Y	120.0	0.00	4.95	1.88	1	37	16	92	0.00	0.0	6.127	0.025	0	0	0	3
PL.68854	PL.68859	ABC	#1/0 ACSR	7.20Y	120.0	0.00	4.96	1.52	1	30	14	91	0.00	0.0	6.286	0.158	3	1	1	2
PL.68855	PL.68854	ABC	#1/0 ACSR	7.20Y	120.0	0.00	4.96	1.39	1	27	13	90	0.00	0.0	6.330	0.044	27	13	1	1
PL.68609	PL.68859	C	#4 ACSR	7.20Y	120.0	0.00	4.96	1.09	1	8	2	97	0.00	0.0	6.216	0.089	8	2	1	1
PL.68689	PL.68688	ABC	#1/0 ACSR	7.20Y	120.0	0.01	4.96	14.87	6	311	82	97	0.03	0.0	6.045	0.049	8	2	1	73
PL.68861	PL.68689	ABC	#1/0 ACSR	7.20Y	120.0	0.03	4.99	14.50	6	303	80	97	0.06	0.0	6.152	0.107	3	1	1	72
PL.68862	PL.68861	ABC	#1/0 ACSR	7.20Y	120.0	0.02	5.01	14.36	6	300	80	97	0.04	0.0	6.226	0.075	4	1	1	71
PL.68863	PL.68862	ABC	#1/0 ACSR	7.20Y	120.0	0.01	5.02	14.19	6	296	79	97	0.03	0.0	6.276	0.050	6	2	1	70
PL.68985	PL.68863	C	#4 ACSR	7.20Y	120.0	0.00	5.02	1.03	1	7	2	96	0.00	0.0	6.281	0.005	0	0	0	2
PD.10296	PL.68985	C	40T	7.20Y	120.0	0.00	5.02	1.03	0	7	2	96	0.00	0.0	6.281	0.005	0	0	0	2
PL.68986	PD.10296	C	#4 ACSR	7.20Y	120.0	0.00	5.02	1.03	1	7	2	96	0.00	0.0	6.299	0.018	7	2	2	2
PL.68690	PL.68863	ABC	#1/0 ACSR	7.20Y	120.0	0.01	5.03	13.56	6	283	75	97	0.02	0.0	6.311	0.034	0	0	0	67
PL.68691	PL.68690	ABC	#1/0 ACSR	7.20Y	120.0	0.01	5.04	13.04	6	272	72	97	0.03	0.0	6.373	0.063	7	2	2	66
PL.68987	PL.68691	C	#4 ACSR	7.20Y	120.0	0.00	5.04	2.17	2	15	4	97	0.00	0.0	6.378	0.005	0	0	0	4
PD.10297	PL.68987	C	40T	7.20Y	120.0	0.00	5.04	2.17	0	15	4	97	0.00	0.0	6.378	0.005	0	0	0	4
PL.68988	PD.10297	C	#4 ACSR	7.20Y	120.0	0.00	5.04	2.17	2	15	4	97	0.00	0.0	6.388	0.010	15	4	4	4
PL.68864	PL.68691	ABC	#1/0 ACSR	7.20Y	119.9	0.01	5.05	11.98	5	250	66	97	0.02	0.0	6.430	0.057	1	0	1	60
PL.68865	PL.68864	ABC	#1/0 ACSR	7.20Y	119.9	0.01	5.06	11.92	5	249	66	97	0.02	0.0	6.477	0.047	7	2	1	59
PL.68866	PL.68865	ABC	#1/0 ACSR	7.20Y	119.9	0.01	5.07	11.61	5	242	64	97	0.01	0.0	6.517	0.040	0	0	0	58
PL.68990	PL.68866	C	#4 ACSR	7.20Y	119.9	0.00	5.07	0.85	1	6	2	95	0.00	0.0	6.522	0.005	0	0	0	2
PD.10298	PL.68990	C	40T	7.20Y	119.9	0.00	5.07	0.85	0	6	2	95	0.00	0.0	6.522	0.005	0	0	0	2
PL.68989	PD.10298	C	#4 ACSR	7.20Y	119.9	0.00	5.07	0.85	1	6	2	95	0.00	0.0	6.550	0.028	6	2	2	2
PL.68692	PL.68866	ABC	#1/0 ACSR	7.20Y	119.9	0.01	5.08	11.33	5	236	63	97	0.02	0.0	6.563	0.046	0	0	0	56
PL.68991	PL.68692	A	#4 ACSR	7.20Y	119.9	0.00	5.08	0.71	1	5	1	98	0.00	0.0	6.567	0.005	0	0	0	2
PD.10299	PL.68991	A	40T	7.20Y	119.9	0.00	5.08	0.71	0	5	1	98	0.00	0.0	6.567	0.005	0	0	0	2
PL.68992	PD.10299	A	#4 ACSR	7.20Y	119.9	0.00	5.08	0.71	1	5	1	98	0.00	0.0	6.587	0.019	5	1	2	2
PL.69054	PL.68692	C	#4 ACSR	7.20Y	119.9	0.00	5.08	3.23	2	22	6	96	0.00	0.0	6.567	0.005	0	0	0	5

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Balanced Voltage Drop Report
Source: Tyner

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.10355	PL.69054	C	40T	7.20Y	119.9	0.00	5.08	3.23	0	22	6	96	0.00	0.0	6.567	0.005	0	0	0	5
PL.69055	PD.10355	C	#4 ACSR	7.19Y	119.9	0.00	5.09	3.23	2	22	6	96	0.00	0.0	6.598	0.031	8	2	1	5
PL.68867	PL.69055	C	#4 ACSR	7.19Y	119.9	0.00	5.09	2.02	2	14	4	96	0.00	0.0	6.633	0.035	12	3	3	4
PL.68611	PL.68867	C	#4 ACSR	7.19Y	119.9	0.00	5.09	0.32	0	2	1	89	0.00	0.0	6.783	0.150	2	1	1	1
PL.68693	PL.68692	ABC	#1/0 ACSR	7.19Y	119.9	0.00	5.09	10.01	4	209	55	97	0.01	0.0	6.587	0.024	0	0	0	49
PL.68610	PL.68693	ABC	#1/0 ACSR	7.19Y	119.9	0.02	5.10	10.01	4	209	55	97	0.02	0.0	6.685	0.099	23	6	3	49
PL.67755	PL.68610	ABC	#1/0 ACSR	7.19Y	119.9	0.01	5.12	7.07	3	148	39	97	0.01	0.0	6.797	0.112	4	1	2	38
PL.68997	PL.67755	A	6 A (CWC)	7.19Y	119.9	0.00	5.12	15.12	11	105	28	97	0.00	0.0	6.802	0.005	0	0	0	23
PD.10302	PL.68997	A	40T	7.19Y	119.9	0.00	5.12	15.12	0	105	28	97	0.00	0.0	6.802	0.005	0	0	0	23
PL.68998	PD.10302	A	6 A (CWC)	7.19Y	119.8	0.09	5.21	15.12	11	105	28	97	0.07	0.1	6.926	0.124	0	0	0	23
PL.68695	PL.68998	A	6 A (CWC)	7.19Y	119.8	0.02	5.22	14.27	10	99	26	97	0.01	0.0	6.951	0.025	5	1	1	22
PL.67763	PL.68695	A	6 A (CWC)	7.18Y	119.7	0.07	5.29	13.50	10	94	25	97	0.05	0.1	7.062	0.110	3	1	1	21
PL.67768	PL.67763	A	#2 ACSR	7.18Y	119.7	0.00	5.29	1.23	1	9	2	98	0.00	0.0	7.189	0.127	9	2	2	2
PL.68696	PL.67763	A	6 A (CWC)	7.18Y	119.7	0.03	5.32	9.82	7	68	18	97	0.02	0.0	7.139	0.078	0	0	0	13
PL.68697	PL.68696	A	6 A (CWC)	7.18Y	119.6	0.03	5.36	9.82	7	68	18	97	0.02	0.0	7.217	0.078	0	0	0	13
PL.67766	PL.68697	A	6 A (CWC)	7.18Y	119.6	0.02	5.38	7.49	5	52	14	97	0.01	0.0	7.279	0.063	0	0	0	9
PL.68869	PL.67766	A	6 A (CWC)	7.18Y	119.6	0.03	5.41	7.49	5	52	14	97	0.01	0.0	7.377	0.097	9	2	1	9
PL.68870	PL.68869	A	6 A (CWC)	7.17Y	119.6	0.01	5.42	6.13	4	43	11	97	0.00	0.0	7.412	0.036	17	4	3	8
PL.68871	PL.68870	A	6 A (CWC)	7.17Y	119.6	0.01	5.43	3.74	3	26	7	97	0.00	0.0	7.473	0.060	0	0	0	5
PL.67765	PL.68871	A	6 A (CWC)	7.17Y	119.6	0.00	5.43	2.04	1	14	4	96	0.00	0.0	7.523	0.050	3	1	1	2
PL.67764	PL.67765	A	#4 ACSR	7.17Y	119.6	0.00	5.43	1.60	1	11	3	96	0.00	0.0	7.574	0.051	11	3	1	1
PL.68698	PL.68871	A	6 A (CWC)	7.17Y	119.6	0.01	5.44	1.71	1	12	3	97	0.00	0.0	7.562	0.089	0	0	0	3
PL.67770	PL.68698	A	#4 ACSR	7.17Y	119.6	0.00	5.44	0.89	1	6	2	95	0.00	0.0	7.613	0.051	6	2	1	1
PL.67769	PL.68698	A	#1/0 ACSR	7.17Y	119.6	0.00	5.44	0.82	0	6	1	99	0.00	0.0	7.589	0.027	6	1	2	2
PL.68872	PL.68697	A	#4 ACSR	7.18Y	119.6	0.00	5.36	2.33	2	16	4	97	0.00	0.0	7.232	0.015	8	2	1	4
PL.68873	PL.68872	A	#4 ACSR	7.18Y	119.6	0.00	5.36	1.13	1	8	2	97	0.00	0.0	7.291	0.059	8	2	3	3
PL.67767	PL.68696	A	#4 ACSR	7.18Y	119.7	0.00	5.32	0.00	0	0	0	100	0.00	0.0	7.158	0.019	0	0	0	0
PL.68874	PL.67763	A	6 A (CWC)	7.18Y	119.7	0.01	5.29	2.08	1	14	4	96	0.00	0.0	7.128	0.067	4	1	2	5
PL.68875	PL.68874	A	6 A (CWC)	7.18Y	119.7	0.00	5.30	1.50	1	10	3	96	0.00	0.0	7.199	0.071	0	0	1	3
PL.68876	PL.68875	A	6 A (CWC)	7.18Y	119.7	0.00	5.30	1.48	1	10	3	96	0.00	0.0	7.223	0.024	3	1	1	2
PL.68877	PL.68876	A	6 A (CWC)	7.18Y	119.7	0.00	5.30	0.98	1	7	2	96	0.00	0.0	7.349	0.126	7	2	1	1

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Balanced Voltage Drop Report
Source: Tyner

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.67756	PL.68998	A	#1/0 ACSR	7.19Y	119.8	0.00	5.21	0.85	0	6	2	95	0.00	0.0	6.985	0.058	6	2	1	1
PL.68694	PL.67755	ABC	#1/0 ACSR	7.19Y	119.9	0.00	5.12	1.85	1	39	10	97	0.00	0.0	6.808	0.010	0	0	0	13
PL.68995	PL.68694	A	6 A (CWC)	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	6.812	0.005	0	0	0	0
PD.10301	PL.68995	A	40T	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	6.812	0.005	0	0	0	0
PL.68996	PD.10301	A	6 A (CWC)	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	6.896	0.084	0	0	0	0
PL.69056	PL.68694	B	6 A (CWC)	7.19Y	119.9	0.00	5.12	5.56	4	39	10	97	0.00	0.0	6.812	0.005	0	0	0	13
PD.10356	PL.69056	B	40T	7.19Y	119.9	0.00	5.12	5.56	0	39	10	97	0.00	0.0	6.812	0.005	0	0	0	13
PL.69057	PD.10356	B	6 A (CWC)	7.19Y	119.9	0.03	5.14	5.56	4	39	10	97	0.01	0.0	6.922	0.110	6	2	1	13
PL.67758	PL.69057	B	#4 ACSR	7.19Y	119.8	0.01	5.15	2.33	2	16	4	97	0.00	0.0	6.996	0.074	8	2	2	4
PL.67757	PL.67758	B	#4 ACSR	7.19Y	119.8	0.00	5.15	1.19	1	8	2	97	0.00	0.0	7.110	0.114	8	2	2	2
PL.67759	PL.69057	B	6 A (CWC)	7.19Y	119.9	0.00	5.15	1.02	1	7	2	96	0.00	0.0	6.954	0.033	0	0	0	2
PL.67760	PL.67759	B	6 A (CWC)	7.19Y	119.9	0.00	5.15	1.02	1	7	2	96	0.00	0.0	7.024	0.069	0	0	0	2
PL.68732	PL.67760	B	#4 ACSR	7.19Y	119.8	0.01	5.16	1.02	1	7	2	96	0.00	0.0	7.173	0.149	0	0	0	2
PL.67762	PL.68732	B	#4 ACSR	7.19Y	119.8	0.00	5.16	0.00	0	0	0	100	0.00	0.0	7.208	0.035	0	0	0	0
PL.68733	PL.68732	B	#4 ACSR	7.19Y	119.8	0.00	5.16	1.02	1	7	2	96	0.00	0.0	7.283	0.110	7	2	2	2
PL.67761	PL.69057	B	#4 ACSR	7.19Y	119.9	0.00	5.15	1.35	1	9	2	98	0.00	0.0	6.967	0.045	9	2	6	6
PL.68993	PL.68610	C	#2 ACSR	7.19Y	119.9	0.00	5.10	5.49	3	38	10	97	0.00	0.0	6.690	0.005	0	0	0	8
PD.10300	PL.68993	C	40T	7.19Y	119.9	0.00	5.10	5.49	0	38	10	97	0.00	0.0	6.690	0.005	0	0	0	8
PL.68994	PD.10300	C	#2 ACSR	7.19Y	119.9	0.01	5.11	5.49	3	38	10	97	0.00	0.0	6.729	0.039	8	2	1	8
PL.68868	PL.68994	C	#2 ACSR	7.19Y	119.9	0.00	5.11	4.40	3	31	8	97	0.00	0.0	6.754	0.024	31	8	7	7
PL.68983	PL.68690	A	#1/0 ACSR	7.20Y	120.0	0.00	5.03	1.56	1	11	3	96	0.00	0.0	6.315	0.005	0	0	0	1
PD.10295	PL.68983	A	20T	7.20Y	120.0	0.00	5.03	1.56	0	11	3	96	0.00	0.0	6.315	0.005	0	0	0	1
PL.68984	PD.10295	A	#1/0 ACSR	7.20Y	120.0	0.00	5.03	1.56	1	11	3	96	0.00	0.0	6.350	0.034	11	3	1	1
PL.68981	PL.68858	C	#2 ACSR	7.20Y	120.1	0.00	4.92	0.55	0	4	1	97	0.00	0.0	5.934	0.032	0	0	0	2
PD.10294	PL.68981	C	40T	7.20Y	120.1	0.00	4.92	0.55	0	4	1	97	0.00	0.0	5.934	0.032	0	0	0	2
PL.68982	PD.10294	C	#2 ACSR	7.20Y	120.1	0.00	4.92	0.55	0	4	1	97	0.00	0.0	5.963	0.028	4	1	1	2
PL.68856	PL.68982	C	#2 ACSR	7.20Y	120.1	0.00	4.92	0.04	0	0	0	100	0.00	0.0	6.008	0.046	0	0	1	1
PL.68608	PL.68607	A	#2 ACSR	7.21Y	120.1	0.00	4.87	1.31	1	9	2	98	0.00	0.0	5.770	0.014	7	2	1	2
PL.68977	PL.68608	A	6 A (CWC)	7.21Y	120.1	0.00	4.87	0.37	0	3	1	95	0.00	0.0	5.775	0.005	0	0	0	1
PD.10292	PL.68977	A	15T	7.21Y	120.1	0.00	4.87	0.37	0	3	1	95	0.00	0.0	5.775	0.005	0	0	0	1
PL.68978	PD.10292	A	6 A (CWC)	7.21Y	120.1	0.00	4.87	0.37	0	3	1	95	0.00	0.0	5.874	0.099	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: Tyner

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.68975	PL.68726	A	#2 ACSR	7.21Y	120.2	0.00	4.83	0.94	1	7	2	96	0.00	0.0	5.647	0.005	0	0	0	1
PD.10291	PL.68975	A	40T	7.21Y	120.2	0.00	4.83	0.94	0	7	2	96	0.00	0.0	5.647	0.005	0	0	0	1
PL.68976	PD.10291	A	#2 ACSR	7.21Y	120.2	0.00	4.83	0.94	1	7	2	96	0.00	0.0	5.694	0.047	7	2	1	1
PL.68973	PL.68685	A	#4 ACSR	7.22Y	120.3	0.00	4.74	1.90	1	13	3	97	0.00	0.0	5.409	0.005	0	0	0	2
PD.10290	PL.68973	A	40T	7.22Y	120.3	0.00	4.74	1.90	0	13	3	97	0.00	0.0	5.409	0.005	0	0	0	2
PL.68974	PD.10290	A	#4 ACSR	7.22Y	120.3	0.00	4.75	1.90	1	13	3	97	0.00	0.0	5.490	0.081	13	3	2	2
PL.68969	PL.68730	B	6 A (CWC)	7.22Y	120.3	0.00	4.69	0.81	1	6	1	99	0.00	0.0	5.259	0.005	0	0	0	2
PD.10288	PL.68969	B	40T	7.22Y	120.3	0.00	4.69	0.81	0	6	1	99	0.00	0.0	5.259	0.005	0	0	0	2
PL.68970	PD.10288	B	6 A (CWC)	7.22Y	120.3	0.00	4.69	0.81	1	6	1	99	0.00	0.0	5.335	0.076	6	1	2	2
PL.68967	PL.68729	C	#1/0 ACSR	7.22Y	120.3	0.00	4.67	0.00	0	0	0	100	0.00	0.0	5.206	0.005	0	0	0	2
PD.10287	PL.68967	C	40T	7.22Y	120.3	0.00	4.67	0.00	0	0	0	100	0.00	0.0	5.206	0.005	0	0	0	2
PL.68968	PD.10287	C	#1/0 ACSR	7.22Y	120.3	0.00	4.67	0.00	0	0	0	100	0.00	0.0	5.229	0.023	0	0	2	2
PL.68445	PL.68532	ABC	6 A (CWC)	7.22Y	120.3	0.00	4.65	0.01	0	0	0	100	0.00	0.0	5.219	0.051	0	0	1	1
PL.68951	PL.68728	C	6 A (CWC)	7.22Y	120.4	0.00	4.60	6.17	4	43	11	97	0.00	0.0	5.027	0.005	0	0	0	6
PD.10278	PL.68951	C	15T	7.22Y	120.4	0.00	4.60	6.17	0	43	11	97	0.00	0.0	5.027	0.005	0	0	0	6
PL.68952	PD.10278	C	6 A (CWC)	7.22Y	120.4	0.00	4.60	6.17	4	43	11	97	0.00	0.0	5.049	0.022	23	6	3	6
PL.68533	PL.68952	C	6 A (CWC)	7.22Y	120.4	0.01	4.61	2.82	2	20	5	97	0.00	0.0	5.106	0.058	0	0	0	3
PL.68448	PL.68533	C	6 A (CWC)	7.22Y	120.4	0.00	4.61	0.94	1	7	2	96	0.00	0.0	5.164	0.057	0	0	0	1
PL.68447	PL.68448	C	#4 ACSR	7.22Y	120.4	0.00	4.62	0.94	1	7	2	96	0.00	0.0	5.271	0.108	0	0	0	1
PL.68606	PL.68447	C	#1/0 ACSR	7.22Y	120.4	0.00	4.62	0.94	0	7	2	96	0.00	0.0	5.327	0.056	7	2	1	1
PL.68446	PL.68533	C	#4 ACSR	7.22Y	120.4	0.00	4.61	1.88	1	13	3	97	0.00	0.0	5.183	0.077	13	3	2	2
PL.69052	PL.68703	A	#1/0 ACSR	7.23Y	120.5	0.00	4.48	4.04	2	28	7	97	0.00	0.0	4.801	0.005	0	0	0	4
PD.10354	PL.69052	A	30T	7.23Y	120.5	0.00	4.48	4.04	0	28	7	97	0.00	0.0	4.801	0.005	0	0	0	4
PL.69053	PD.10354	A	#1/0 ACSR	7.23Y	120.5	0.00	4.49	4.04	2	28	7	97	0.00	0.0	4.843	0.042	28	7	4	4
PL.68428	PL.68668	ABC	#1/0 ACSR	7.23Y	120.6	0.02	4.43	20.28	9	425	113	97	0.05	0.0	4.683	0.042	6	2	1	89
PL.68672	PL.68428	ABC	#1/0 ACSR	7.23Y	120.5	0.02	4.46	16.63	7	349	93	97	0.05	0.0	4.753	0.070	0	0	0	77
PL.69084	PL.68672	ABC	#1/0 ACSR	7.23Y	120.5	0.00	4.46	16.63	7	349	93	97	0.00	0.0	4.756	0.003	0	0	0	77
PD.10373	PL.69084	ABC	50L	7.23Y	120.5	0.00	4.46	16.63	33	349	93	97	0.00	0.0	4.756	0.003	0	0	0	77
PL.69085	PD.10373	ABC	#1/0 ACSR	7.23Y	120.5	0.01	4.47	16.63	7	349	93	97	0.02	0.0	4.789	0.033	0	0	0	77
PL.68671	PL.69085	ABC	#1/0 ACSR	7.23Y	120.5	0.02	4.48	15.25	7	320	85	97	0.04	0.0	4.853	0.064	2	1	1	75
PL.68430	PL.68671	ABC	#1/0 ACSR	7.23Y	120.5	0.02	4.50	14.47	6	303	81	97	0.03	0.0	4.913	0.060	0	0	0	67

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: Tyner

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.68936	PL.68430	A	6 A (CWC)	7.23Y	120.5	0.00	4.50	0.16	0	1	0	100	0.00	0.0	4.917	0.005	0	0	0	2
PD.10341	PL.68936	A	40T	7.23Y	120.5	0.00	4.50	0.16	0	1	0	100	0.00	0.0	4.917	0.005	0	0	0	2
PL.68937	PD.10341	A	6 A (CWC)	7.23Y	120.5	0.00	4.50	0.16	0	1	0	100	0.00	0.0	4.972	0.055	1	0	2	2
PL.68673	PL.68430	ABC	#1/0 ACSR	7.23Y	120.5	0.02	4.52	14.42	6	302	80	97	0.05	0.0	5.007	0.094	0	0	0	65
PL.68674	PL.68673	ABC	#1/0 ACSR	7.23Y	120.4	0.04	4.56	14.23	6	298	79	97	0.08	0.0	5.155	0.149	0	0	1	63
PL.68431	PL.68674	ABC	#2 ACSR	7.22Y	120.4	0.03	4.59	13.72	8	288	76	97	0.06	0.0	5.236	0.081	0	0	0	60
PL.68522	PL.68431	ABC	#2 ACSR	7.22Y	120.4	0.02	4.61	12.44	7	261	69	97	0.04	0.0	5.295	0.059	3	1	1	53
PL.68523	PL.68522	ABC	#2 ACSR	7.22Y	120.4	0.03	4.64	12.29	7	257	68	97	0.07	0.0	5.403	0.108	0	0	0	52
PL.68727	PL.68523	ABC	#2 ACSR	7.22Y	120.3	0.02	4.66	12.17	7	255	68	97	0.04	0.0	5.462	0.059	0	0	0	51
PL.68434	PL.68727	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.67	12.17	5	255	68	97	0.02	0.0	5.519	0.057	0	0	0	51
PL.68676	PL.68434	ABC	#1/0 ACSR	7.22Y	120.3	0.02	4.69	9.84	4	206	55	97	0.03	0.0	5.624	0.105	0	0	0	44
PL.69036	PL.68676	C	#4 ACSR	7.22Y	120.3	0.00	4.69	18.93	15	132	35	97	0.00	0.0	5.628	0.005	0	0	0	27
PD.10347	PL.69036	C	40T	7.22Y	120.3	0.00	4.69	18.93	0	132	35	97	0.00	0.0	5.628	0.005	0	0	0	27
PL.69037	PD.10347	C	#4 ACSR	7.22Y	120.3	0.03	4.72	18.93	15	132	35	97	0.03	0.0	5.665	0.037	0	0	0	27
PL.68437	PL.69037	C	#2 ACSR	7.22Y	120.3	0.00	4.72	0.39	0	3	1	95	0.00	0.0	5.688	0.023	3	1	1	1
PL.68540	PL.69037	C	#4 ACSR	7.21Y	120.2	0.05	4.77	18.54	14	129	34	97	0.05	0.0	5.727	0.062	3	1	1	26
PL.68541	PL.68540	C	#4 ACSR	7.21Y	120.2	0.05	4.83	18.04	14	126	33	97	0.05	0.0	5.794	0.067	0	0	0	25
PL.68514	PL.68541	C	#4 ACSR	7.21Y	120.1	0.04	4.87	14.01	11	98	26	97	0.03	0.0	5.863	0.069	14	4	1	19
PL.68594	PL.68514	C	#4 ACSR	7.21Y	120.1	0.03	4.90	9.78	8	68	18	97	0.02	0.0	5.951	0.088	14	4	2	13
PL.68805	PL.68594	C	#4 ACSR	7.21Y	120.1	0.01	4.91	7.76	6	54	14	97	0.00	0.0	5.988	0.037	8	2	1	11
PL.68806	PL.68805	C	#4 ACSR	7.20Y	120.1	0.01	4.93	6.56	5	46	12	97	0.00	0.0	6.026	0.039	7	2	2	10
PL.68804	PL.68806	C	#4 ACSR	7.20Y	120.1	0.00	4.93	5.56	4	39	10	97	0.00	0.0	6.040	0.014	0	0	0	8
PL.68678	PL.68804	C	#4 ACSR	7.20Y	120.1	0.00	4.93	3.80	3	26	7	97	0.00	0.0	6.064	0.024	2	0	1	6
PL.68802	PL.68678	C	#4 ACSR	7.20Y	120.1	0.00	4.94	3.53	3	25	7	96	0.00	0.0	6.100	0.036	11	3	2	5
PL.68803	PL.68802	C	#4 ACSR	7.20Y	120.1	0.00	4.94	1.99	2	14	4	96	0.00	0.0	6.161	0.060	14	4	3	3
PL.68595	PL.68804	C	#1/0 ACSR	7.20Y	120.1	0.00	4.93	1.77	1	12	3	97	0.00	0.0	6.096	0.056	12	3	2	2
PL.68800	PL.68514	C	#4 ACSR	7.21Y	120.1	0.00	4.87	2.24	2	16	4	97	0.00	0.0	5.889	0.025	1	0	1	5
PL.68801	PL.68800	C	#4 ACSR	7.21Y	120.1	0.00	4.87	2.12	2	15	4	97	0.00	0.0	5.914	0.025	15	4	3	4
PL.68515	PL.68801	C	#2 ACSR	7.21Y	120.1	0.00	4.87	0.04	0	0	0	100	0.00	0.0	6.024	0.110	0	0	1	1
PL.68512	PL.68541	C	#4 ACSR	7.21Y	120.2	0.02	4.84	4.03	3	28	7	97	0.00	0.0	5.885	0.091	1	0	1	6
PL.68513	PL.68512	C	#1/0 ACSR	7.21Y	120.2	0.00	4.85	1.27	1	9	2	98	0.00	0.0	5.943	0.058	9	2	2	2

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Balanced Voltage Drop Report
Source: Tyner

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.68807	PL.68512	C	#4 ACSR	7.21Y	120.2	0.00	4.85	2.67	2	19	5	97	0.00	0.0	5.927	0.042	8	2	1	3
PL.68808	PL.68807	C	#4 ACSR	7.21Y	120.1	0.00	4.85	1.54	1	11	3	96	0.00	0.0	5.984	0.057	11	3	2	2
PL.68677	PL.68676	A	#4 ACSR	7.22Y	120.3	0.00	4.69	1.09	1	8	2	97	0.00	0.0	5.628	0.005	0	0	0	3
PD.10346	PL.68677	A	40T	7.22Y	120.3	0.00	4.69	1.09	0	8	2	97	0.00	0.0	5.628	0.005	0	0	0	3
PL.68435	PD.10346	A	#4 ACSR	7.22Y	120.3	0.00	4.69	0.30	0	2	1	89	0.00	0.0	5.648	0.020	2	1	1	1
PL.68436	PD.10346	A	#4 ACSR	7.22Y	120.3	0.00	4.69	0.79	1	5	1	98	0.00	0.0	5.731	0.103	5	1	1	2
PL.68511	PL.68436	A	#4 ACSR	7.22Y	120.3	0.00	4.69	0.02	0	0	0	100	0.00	0.0	5.796	0.064	0	0	1	1
PL.69038	PL.68676	ABC	#1/0 ACSR	7.22Y	120.3	0.00	4.69	3.17	1	66	18	96	0.00	0.0	5.628	0.005	0	0	0	14
PL.69039	PL.69038	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.70	3.17	1	66	18	96	0.00	0.0	5.720	0.091	0	0	0	14
PL.68438	PL.69039	B	#1/0 ACSR	7.22Y	120.3	0.00	4.70	9.51	4	66	18	96	0.00	0.0	5.728	0.009	0	0	0	14
PL.69040	PL.68438	B	6 A (CWC)	7.22Y	120.3	0.00	4.70	9.51	7	66	18	96	0.00	0.0	5.733	0.005	0	0	0	14
PD.10348	PL.69040	B	20T	7.22Y	120.3	0.00	4.70	9.51	0	66	18	96	0.00	0.0	5.733	0.005	0	0	0	14
PL.69041	PD.10348	B	6 A (CWC)	7.22Y	120.3	0.03	4.73	9.51	7	66	18	96	0.02	0.0	5.817	0.084	7	2	1	14
PL.68599	PL.69041	B	#4 ACSR	7.22Y	120.3	0.00	4.74	1.38	1	10	3	96	0.00	0.0	5.921	0.104	10	3	1	1
PL.68598	PL.69041	B	6 A (CWC)	7.21Y	120.2	0.02	4.76	7.14	5	50	13	97	0.01	0.0	5.892	0.075	0	0	0	12
PL.68597	PL.68598	B	6 A (CWC)	7.21Y	120.2	0.00	4.76	0.28	0	2	1	89	0.00	0.0	5.941	0.049	2	1	1	1
PL.68679	PL.68598	B	6 A (CWC)	7.21Y	120.2	0.02	4.78	6.86	5	48	13	97	0.01	0.0	5.948	0.055	2	0	1	11
PL.68600	PL.68679	B	6 A (CWC)	7.21Y	120.2	0.04	4.82	6.63	5	46	12	97	0.02	0.0	6.092	0.144	0	0	0	10
PL.68839	PL.68600	B	6 A (CWC)	7.21Y	120.2	0.01	4.83	2.99	2	21	6	96	0.00	0.0	6.149	0.058	4	1	1	6
PL.68840	PL.68839	B	6 A (CWC)	7.21Y	120.2	0.01	4.83	2.35	2	16	4	97	0.00	0.0	6.231	0.081	2	1	1	5
PL.68603	PL.68840	B	#2 ACSR	7.21Y	120.2	0.00	4.83	0.01	0	0	0	100	0.00	0.0	6.299	0.069	0	0	1	1
PL.68680	PL.68840	B	6 A (CWC)	7.21Y	120.2	0.00	4.84	2.03	1	14	4	96	0.00	0.0	6.305	0.075	14	4	3	3
PL.68721	PL.68600	B	#4 ACSR	7.21Y	120.2	0.01	4.83	1.55	1	11	3	96	0.00	0.0	6.193	0.101	0	0	0	2
PL.68722	PL.68721	B	#4 ACSR	7.21Y	120.2	0.01	4.83	1.55	1	11	3	96	0.00	0.0	6.306	0.113	0	0	0	2
PL.68596	PL.68722	B	#4 ACSR	7.21Y	120.2	0.00	4.84	1.55	1	11	3	96	0.00	0.0	6.415	0.110	11	3	2	2
PL.68601	PL.68600	B	#4 ACSR	7.21Y	120.2	0.00	4.82	2.10	2	15	4	97	0.00	0.0	6.160	0.069	11	3	1	2
PL.68602	PL.68601	B	#1/0 ACSR	7.21Y	120.2	0.00	4.82	0.57	0	4	1	97	0.00	0.0	6.322	0.162	4	1	1	1
PL.69034	PL.68434	A	#4 ACSR	7.22Y	120.3	0.00	4.67	7.00	5	49	13	97	0.00	0.0	5.523	0.005	0	0	0	7
PD.10345	PL.69034	A	40T	7.22Y	120.3	0.00	4.67	7.00	0	49	13	97	0.00	0.0	5.523	0.005	0	0	0	7
PL.69035	PD.10345	A	#4 ACSR	7.22Y	120.3	0.03	4.70	7.00	5	49	13	97	0.01	0.0	5.623	0.100	0	0	0	7
PL.68604	PL.69035	A	6 A (CWC)	7.21Y	120.2	0.05	4.75	7.00	5	49	13	97	0.02	0.0	5.780	0.158	0	0	0	7

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Balanced Voltage Drop Report
Source: Tyner

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.68719	PL.68604	A	6 A (CWC)	7.21Y	120.2	0.02	4.78	7.00	5	49	13	97	0.01	0.0	5.854	0.074	0	0	0	7
PL.68720	PL.68719	A	6 A (CWC)	7.21Y	120.2	0.04	4.82	7.00	5	49	13	97	0.01	0.0	5.975	0.121	0	0	0	7
PL.68605	PL.68720	A	#2 ACSR	7.21Y	120.2	0.01	4.83	7.00	4	49	13	97	0.00	0.0	6.034	0.059	5	1	2	7
PL.68841	PL.68605	A	#2 ACSR	7.21Y	120.2	0.01	4.84	6.25	4	44	12	96	0.00	0.0	6.095	0.061	9	2	1	5
PL.68843	PL.68841	A	#2 ACSR	7.21Y	120.2	0.00	4.84	5.03	3	35	9	97	0.00	0.0	6.131	0.036	11	3	1	4
PL.68844	PL.68843	A	#2 ACSR	7.21Y	120.2	0.00	4.85	3.39	2	24	6	97	0.00	0.0	6.193	0.061	20	5	2	3
PL.68842	PL.68844	A	#2 ACSR	7.21Y	120.2	0.00	4.85	0.56	0	4	1	97	0.00	0.0	6.257	0.064	4	1	1	1
PL.69032	PL.68523	A	#4 ACSR	7.22Y	120.4	0.00	4.64	0.34	0	2	1	89	0.00	0.0	5.407	0.005	0	0	0	1
PD.10344	PL.69032	A	40T	7.22Y	120.4	0.00	4.64	0.34	0	2	1	89	0.00	0.0	5.407	0.005	0	0	0	1
PL.69033	PD.10344	A	#4 ACSR	7.22Y	120.4	0.00	4.64	0.34	0	2	1	89	0.00	0.0	5.421	0.013	2	1	1	1
PL.68432	PL.68431	B	#4 ACSR	7.22Y	120.4	0.00	4.59	2.14	2	15	4	97	0.00	0.0	5.272	0.036	0	0	0	6
PL.68949	PL.68432	B	6 A (CWC)	7.22Y	120.4	0.00	4.59	2.14	2	15	4	97	0.00	0.0	5.277	0.005	0	0	0	6
PD.10277	PL.68949	B	20T	7.22Y	120.4	0.00	4.59	2.14	0	15	4	97	0.00	0.0	5.277	0.005	0	0	0	6
PL.68950	PD.10277	B	6 A (CWC)	7.22Y	120.4	0.00	4.59	2.14	2	15	4	97	0.00	0.0	5.283	0.006	9	2	3	6
PL.68524	PL.68950	B	6 A (CWC)	7.22Y	120.4	0.00	4.60	0.88	1	6	2	95	0.00	0.0	5.339	0.056	0	0	0	3
PL.68433	PL.68524	B	#4 ACSR	7.22Y	120.4	0.00	4.60	0.06	0	0	0	100	0.00	0.0	5.396	0.057	0	0	1	1
PL.68675	PL.68524	B	6 A (CWC)	7.22Y	120.4	0.01	4.60	0.83	1	6	2	95	0.00	0.0	5.496	0.157	0	0	0	2
PL.68439	PL.68675	B	#1/0 ACSR	7.22Y	120.4	0.00	4.60	0.55	0	4	1	97	0.00	0.0	5.607	0.111	4	1	1	1
PL.68440	PL.68675	B	#1/0 ACSR	7.22Y	120.4	0.00	4.60	0.28	0	2	1	89	0.00	0.0	5.564	0.068	2	1	1	1
PL.68940	PL.68431	C	#1/0 ACSR	7.22Y	120.4	0.00	4.59	1.71	1	12	3	97	0.00	0.0	5.241	0.005	0	0	0	1
PD.10343	PL.68940	C	20T	7.22Y	120.4	0.00	4.59	1.71	0	12	3	97	0.00	0.0	5.241	0.005	0	0	0	1
PL.68941	PD.10343	C	#1/0 ACSR	7.22Y	120.4	0.00	4.59	1.71	1	12	3	97	0.00	0.0	5.268	0.027	12	3	1	1
PL.68947	PL.68674	B	#1/0 ACSR	7.23Y	120.4	0.00	4.56	1.52	1	11	3	96	0.00	0.0	5.160	0.005	0	0	0	2
PD.10276	PL.68947	B	40T	7.23Y	120.4	0.00	4.56	1.52	0	11	3	96	0.00	0.0	5.160	0.005	0	0	0	2
PL.68948	PD.10276	B	#1/0 ACSR	7.23Y	120.4	0.00	4.56	1.52	1	11	3	96	0.00	0.0	5.179	0.019	11	3	2	2
PL.68938	PL.68673	A	#4 ACSR	7.23Y	120.5	0.00	4.52	0.57	0	4	1	97	0.00	0.0	5.011	0.005	0	0	0	2
PD.10342	PL.68938	A	40T	7.23Y	120.5	0.00	4.52	0.57	0	4	1	97	0.00	0.0	5.011	0.005	0	0	0	2
PL.68939	PD.10342	A	#4 ACSR	7.23Y	120.5	0.00	4.52	0.57	0	4	1	97	0.00	0.0	5.027	0.016	4	1	2	2
PL.68932	PL.68671	C	6 A (CWC)	7.23Y	120.5	0.00	4.48	0.92	1	6	2	95	0.00	0.0	4.857	0.005	0	0	0	2
PD.10339	PL.68932	C	40T	7.23Y	120.5	0.00	4.48	0.92	0	6	2	95	0.00	0.0	4.857	0.005	0	0	0	2
PL.68933	PD.10339	C	6 A (CWC)	7.23Y	120.5	0.00	4.48	0.92	1	6	2	95	0.00	0.0	4.922	0.065	6	2	2	2

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

Balanced Voltage Drop Report
Source: Tyner

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.68934	PL.68671	A	#4 ACSR	7.23Y	120.5	0.00	4.48	1.07	1	8	2	97	0.00	0.0	4.857	0.005	0	0	0	5
PD.10340	PL.68934	A	40T	7.23Y	120.5	0.00	4.48	1.07	0	8	2	97	0.00	0.0	4.857	0.005	0	0	0	5
PL.68935	PD.10340	A	#4 ACSR	7.23Y	120.5	0.00	4.48	1.07	1	8	2	97	0.00	0.0	4.914	0.057	8	2	5	5
PL.68930	PL.69085	A	#4 ACSR	7.23Y	120.5	0.00	4.47	2.95	2	21	5	97	0.00	0.0	4.793	0.005	0	0	0	1
PD.10338	PL.68930	A	40T	7.23Y	120.5	0.00	4.47	2.95	0	21	5	97	0.00	0.0	4.793	0.005	0	0	0	1
PL.68931	PD.10338	A	#4 ACSR	7.23Y	120.5	0.00	4.47	2.95	2	21	5	97	0.00	0.0	4.850	0.057	21	5	1	1
PL.68928	PL.69085	C	#4 ACSR	7.23Y	120.5	0.00	4.47	1.17	1	8	2	97	0.00	0.0	4.794	0.005	0	0	0	1
PD.10337	PL.68928	C	40T	7.23Y	120.5	0.00	4.47	1.17	0	8	2	97	0.00	0.0	4.794	0.005	0	0	0	1
PL.68929	PD.10337	C	#4 ACSR	7.23Y	120.5	0.00	4.47	1.17	1	8	2	97	0.00	0.0	4.816	0.022	8	2	1	1
PL.68926	PL.68428	B	#4 ACSR	7.23Y	120.6	0.00	4.44	10.12	8	71	19	97	0.00	0.0	4.688	0.005	0	0	0	11
PD.10336	PL.68926	B	25T	7.23Y	120.6	0.00	4.44	10.12	0	71	19	97	0.00	0.0	4.688	0.005	0	0	0	11
PL.68927	PD.10336	B	#4 ACSR	7.23Y	120.6	0.01	4.44	10.12	8	71	19	97	0.00	0.0	4.707	0.020	21	6	4	11
PL.68520	PL.68927	B	#4 ACSR	7.23Y	120.5	0.01	4.45	7.09	5	50	13	97	0.00	0.0	4.742	0.035	4	1	1	7
PL.68521	PL.68520	B	#4 ACSR	7.23Y	120.5	0.01	4.46	6.50	5	45	12	97	0.00	0.0	4.790	0.048	39	10	5	6
PL.68429	PL.68521	B	#4 ACSR	7.23Y	120.5	0.00	4.46	0.94	1	7	2	96	0.00	0.0	4.873	0.082	7	2	1	1
PL.68924	PL.68667	A	#1/0 ACSR	7.24Y	120.6	0.00	4.40	3.18	1	22	6	96	0.00	0.0	4.613	0.005	0	0	0	7
PD.10335	PL.68924	A	65T	7.24Y	120.6	0.00	4.40	3.18	0	22	6	96	0.00	0.0	4.613	0.005	0	0	0	7
PL.68925	PD.10335	A	#1/0 ACSR	7.24Y	120.6	0.00	4.41	3.18	1	22	6	96	0.00	0.0	4.633	0.020	7	2	1	7
PL.68519	PL.68925	A	#1/0 ACSR	7.24Y	120.6	0.00	4.41	2.23	1	16	4	97	0.00	0.0	4.662	0.029	0	0	1	6
PL.68536	PL.68519	A	#4 ACSR	7.24Y	120.6	0.01	4.41	2.22	2	16	4	97	0.00	0.0	4.763	0.101	8	2	1	5
PL.68537	PL.68536	A	#4 ACSR	7.23Y	120.6	0.00	4.42	1.05	1	7	2	96	0.00	0.0	4.827	0.064	0	0	1	4
PL.68535	PL.68537	A	#4 ACSR	7.23Y	120.6	0.01	4.42	1.00	1	7	2	96	0.00	0.0	4.965	0.138	0	0	0	3
PL.68426	PL.68535	A	6 A (CWC)	7.23Y	120.6	0.00	4.42	0.35	0	2	1	89	0.00	0.0	5.066	0.101	2	1	1	1
PL.68669	PL.68535	A	#4 ACSR	7.23Y	120.6	0.00	4.42	0.65	1	5	1	98	0.00	0.0	4.995	0.030	3	1	1	2
PL.68427	PL.68669	A	#4 ACSR	7.23Y	120.6	0.00	4.42	0.24	0	2	0	100	0.00	0.0	5.027	0.032	2	0	1	1
PL.68920	PL.68423	C	#4 ACSR	7.24Y	120.6	0.00	4.39	2.25	2	16	4	97	0.00	0.0	4.573	0.005	0	0	0	3
PD.10333	PL.68920	C	65T	7.24Y	120.6	0.00	4.39	2.25	0	16	4	97	0.00	0.0	4.573	0.005	0	0	0	3
PL.68921	PD.10333	C	#4 ACSR	7.24Y	120.6	0.00	4.39	2.25	2	16	4	97	0.00	0.0	4.593	0.020	11	3	1	3
PL.68517	PL.68921	C	#4 ACSR	7.24Y	120.6	0.00	4.39	0.69	1	5	1	98	0.00	0.0	4.628	0.036	5	1	2	2
PL.68922	PL.68423	A	#4 ACSR	7.24Y	120.6	0.00	4.39	4.28	3	30	8	97	0.00	0.0	4.573	0.005	0	0	0	7
PD.10334	PL.68922	A	25T	7.24Y	120.6	0.00	4.39	4.28	0	30	8	97	0.00	0.0	4.573	0.005	0	0	0	7

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Balanced Voltage Drop Report
Source: Tyner

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.68923	PD.10334	A	#4 ACSR	7.24Y	120.6	0.01	4.39	4.28	3	30	8	97	0.00	0.0	4.604	0.031	6	2	1	7
PL.68518	PL.68923	A	#4 ACSR	7.24Y	120.6	0.00	4.39	3.40	3	24	6	97	0.00	0.0	4.609	0.006	0	0	0	6
PL.68425	PL.68518	A	#4 ACSR	7.24Y	120.6	0.00	4.39	3.40	3	24	6	97	0.00	0.0	4.627	0.018	24	6	6	6
PL.68912	PL.68417	C	6 A (CWC)	7.24Y	120.7	0.00	4.30	3.65	3	26	7	97	0.00	0.0	4.400	0.005	0	0	0	6
PD.10329	PL.68912	C	20T	7.24Y	120.7	0.00	4.30	3.65	0	26	7	97	0.00	0.0	4.400	0.005	0	0	0	6
PL.68913	PD.10329	C	6 A (CWC)	7.24Y	120.7	0.01	4.31	3.65	3	26	7	97	0.00	0.0	4.463	0.063	2	1	3	6
PL.68665	PL.68913	C	6 A (CWC)	7.24Y	120.7	0.00	4.31	0.98	1	7	2	96	0.00	0.0	4.518	0.055	7	2	1	1
PL.68418	PL.68913	C	6 A (CWC)	7.24Y	120.7	0.01	4.32	2.32	2	16	4	97	0.00	0.0	4.560	0.097	0	0	0	2
PL.68420	PL.68418	C	#4 ACSR	7.24Y	120.7	0.00	4.32	0.67	1	5	1	98	0.00	0.0	4.599	0.038	5	1	1	1
PL.68421	PL.68418	C	6 A (CWC)	7.24Y	120.7	0.00	4.32	1.64	1	11	3	96	0.00	0.0	4.597	0.037	0	0	0	1
PL.68419	PL.68421	C	#1/0 ACSR	7.24Y	120.7	0.00	4.32	1.64	1	11	3	96	0.00	0.0	4.618	0.021	11	3	1	1
PL.68509	PL.68419	C	#1/0 ACSR	7.24Y	120.7	0.00	4.32	0.00	0	0	0	100	0.00	0.0	4.663	0.044	0	0	0	0
PL.68510	PL.68509	C	#1/0 ACSR	7.24Y	120.7	0.00	4.32	0.00	0	0	0	100	0.00	0.0	4.695	0.032	0	0	0	0
PL.68910	PL.68792	C	#1/0 ACSR	7.25Y	120.8	0.00	4.22	3.05	1	21	6	96	0.00	0.0	4.252	0.005	0	0	0	2
PD.10328	PL.68910	C	30T	7.25Y	120.8	0.00	4.22	3.05	0	21	6	96	0.00	0.0	4.252	0.005	0	0	0	2
PL.68911	PD.10328	C	#1/0 ACSR	7.25Y	120.8	0.00	4.23	3.05	1	21	6	96	0.00	0.0	4.275	0.023	0	0	0	2
PL.68663	PL.68911	C	#1/0 ACSR	7.25Y	120.8	0.00	4.23	2.15	1	15	4	97	0.00	0.0	4.323	0.048	15	4	1	1
PL.68896	PL.68911	C	1/0 AL URD	7.25Y	120.8	0.00	4.23	0.90	1	6	2	95	0.00	0.0	4.279	0.005	0	0	0	1
PD.10273	PL.68896	C	20T	7.25Y	120.8	0.00	4.23	0.90	0	6	2	95	0.00	0.0	4.279	0.005	0	0	0	1
PL.68942	PD.10273	C	1/0 AL URD	7.25Y	120.8	0.00	4.23	0.90	1	6	2	95	0.00	0.0	4.291	0.011	6	2	1	1
PL.68908	PL.69087	C	#1/0 ACSR	7.25Y	120.9	0.00	4.09	2.44	1	17	5	96	0.00	0.0	4.010	0.005	0	0	0	1
PD.10327	PL.68908	C	65T	7.25Y	120.9	0.00	4.09	2.44	0	17	5	96	0.00	0.0	4.010	0.005	0	0	0	1
PL.68909	PD.10327	C	#1/0 ACSR	7.25Y	120.9	0.00	4.10	2.44	1	17	5	96	0.00	0.0	4.077	0.066	0	0	0	1
PL.68955	PL.68909	C	1/0 AL URD	7.25Y	120.9	0.00	4.10	2.44	1	17	5	96	0.00	0.0	4.081	0.005	0	0	0	1
PD.10280	PL.68955	C	40T	7.25Y	120.9	0.00	4.10	2.44	0	17	5	96	0.00	0.0	4.081	0.005	0	0	0	1
PL.68956	PD.10280	C	1/0 AL URD	7.25Y	120.9	0.00	4.10	2.44	1	17	5	96	0.00	0.0	4.107	0.026	17	5	1	1
CP.107	PL.69086	ABC	Cap (300)	7.26Y	120.9	0.00	4.07	0.00	0	0	0	100	0.00	0.0	3.970	0.026	0	0	0	0
PL.68906	PL.68791	C	#4 ACSR	7.26Y	121.0	0.00	4.04	0.44	0	3	1	95	0.00	0.0	3.917	0.005	0	0	0	1
PD.10326	PL.68906	C	65T	7.26Y	121.0	0.00	4.04	0.44	0	3	1	95	0.00	0.0	3.917	0.005	0	0	0	1
PL.68907	PD.10326	C	#4 ACSR	7.26Y	121.0	0.00	4.04	0.44	0	3	1	95	0.00	0.0	3.978	0.062	3	1	1	1
PL.68904	PL.68788	C	#4 ACSR	7.27Y	121.1	0.00	3.89	2.17	2	15	4	97	0.00	0.0	3.665	0.005	0	0	0	6

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Balanced Voltage Drop Report
Source: Tyner

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.10325	PL.68904	C	65T	7.27Y	121.1	0.00	3.89	2.17	0	15	4	97	0.00	0.0	3.665	0.005	0	0	0	6
PL.68905	PD.10325	C	#4 ACSR	7.27Y	121.1	0.00	3.89	2.17	2	15	4	97	0.00	0.0	3.691	0.025	0	0	0	6
PL.68410	PL.68905	C	#4 ACSR	7.27Y	121.1	0.00	3.89	0.86	1	6	2	95	0.00	0.0	3.738	0.047	6	2	1	1
PL.68661	PL.68905	C	#4 ACSR	7.27Y	121.1	0.00	3.89	0.44	0	3	1	95	0.00	0.0	3.723	0.032	3	1	4	4
PL.68409	PL.68905	C	#4 ACSR	7.27Y	121.1	0.00	3.89	0.87	1	6	2	95	0.00	0.0	3.720	0.030	6	2	1	1
PL.69078	PL.68655	B	6 A (CWC)	7.27Y	121.2	0.00	3.82	15.16	11	107	28	97	0.00	0.0	3.551	0.003	0	0	0	24
PD.10369	PL.69078	B	50L	7.27Y	121.2	0.00	3.82	15.16	30	107	28	97	0.00	0.0	3.551	0.003	0	0	0	24
PL.69079	PD.10369	B	6 A (CWC)	7.27Y	121.1	0.05	3.87	15.16	11	107	28	97	0.04	0.0	3.622	0.071	5	1	2	24
PL.68786	PL.69079	B	6 A (CWC)	7.27Y	121.1	0.02	3.89	14.44	10	101	27	97	0.02	0.0	3.656	0.034	9	2	2	22
PL.68789	PL.68786	B	6 A (CWC)	7.26Y	121.0	0.10	3.99	13.21	9	93	25	97	0.07	0.1	3.823	0.167	7	2	1	20
PL.68790	PL.68789	B	6 A (CWC)	7.26Y	121.0	0.02	4.01	12.18	9	85	23	97	0.01	0.0	3.855	0.032	0	0	0	19
PL.68658	PL.68790	B	6 A (CWC)	7.26Y	121.0	0.01	4.02	4.77	3	33	9	96	0.00	0.0	3.902	0.047	2	1	1	7
PL.68404	PL.68658	B	6 A (CWC)	7.26Y	121.0	0.02	4.03	4.45	3	31	8	97	0.00	0.0	3.985	0.083	0	0	0	6
PL.68497	PL.68404	B	6 A (CWC)	7.26Y	121.0	0.02	4.05	4.45	3	31	8	97	0.00	0.0	4.068	0.083	0	0	0	6
PL.68498	PL.68497	B	#4 ACSR	7.26Y	121.0	0.00	4.05	0.00	0	0	0	100	0.00	0.0	4.159	0.091	0	0	0	0
PL.68660	PL.68497	B	6 A (CWC)	7.26Y	120.9	0.02	4.07	4.45	3	31	8	97	0.00	0.0	4.156	0.088	0	0	0	6
PL.68499	PL.68660	B	6 A (CWC)	7.26Y	120.9	0.00	4.07	0.25	0	2	0	100	0.00	0.0	4.241	0.085	2	0	1	1
PL.68500	PL.68660	B	6 A (CWC)	7.25Y	120.9	0.02	4.09	4.21	3	30	8	97	0.01	0.0	4.272	0.116	0	0	0	5
PL.68502	PL.68500	B	6 A (CWC)	7.25Y	120.9	0.01	4.10	2.20	2	15	4	97	0.00	0.0	4.365	0.093	0	0	0	3
PL.68717	PL.68502	B	6 A (CWC)	7.25Y	120.9	0.01	4.11	2.20	2	15	4	97	0.00	0.0	4.510	0.144	0	0	0	3
PL.68718	PL.68717	B	6 A (CWC)	7.25Y	120.9	0.01	4.12	2.20	2	15	4	97	0.00	0.0	4.561	0.052	0	0	0	3
PL.68835	PL.68718	B	6 A (CWC)	7.25Y	120.9	0.00	4.12	0.97	1	7	2	96	0.00	0.0	4.644	0.083	7	2	2	2
PL.68836	PL.68835	B	6 A (CWC)	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	4.752	0.108	0	0	0	0
PL.68503	PL.68718	B	6 A (CWC)	7.25Y	120.9	0.00	4.12	1.23	1	9	2	98	0.00	0.0	4.627	0.066	9	2	1	1
PL.68504	PL.68503	B	#4 ACSR	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	4.737	0.110	0	0	0	0
PL.68501	PL.68500	B	6 A (CWC)	7.25Y	120.9	0.01	4.10	2.01	1	14	4	96	0.00	0.0	4.419	0.147	14	4	2	2
PL.68405	PL.68790	B	#4 ACSR	7.26Y	121.0	0.02	4.03	7.41	6	52	14	97	0.01	0.0	3.926	0.072	1	0	1	12
PL.68814	PL.68405	B	#4 ACSR	7.26Y	121.0	0.02	4.05	6.03	5	42	11	97	0.01	0.0	4.008	0.082	11	3	1	7
PL.68815	PL.68814	B	#4 ACSR	7.26Y	120.9	0.00	4.05	4.53	3	32	8	97	0.00	0.0	4.027	0.019	8	2	2	6
PL.68813	PL.68815	B	#1/0 ACSR	7.26Y	120.9	0.01	4.06	3.44	1	24	6	97	0.00	0.0	4.134	0.107	8	2	1	4
PL.68812	PL.68813	B	#1/0 ACSR	7.26Y	120.9	0.00	4.06	2.35	1	16	4	97	0.00	0.0	4.169	0.035	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: Tyner

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.68495	PL.68812	B	#1/0 ACSR	7.26Y	120.9	0.00	4.06	2.32	1	16	4	97	0.00	0.0	4.237	0.068	9	2	1	2
PL.68957	PL.68495	B	1/0 AL URD	7.26Y	120.9	0.00	4.06	1.00	1	7	2	96	0.00	0.0	4.242	0.005	0	0	0	1
PD.10281	PL.68957	B	20T	7.26Y	120.9	0.00	4.06	1.00	0	7	2	96	0.00	0.0	4.242	0.005	0	0	0	1
PL.68958	PD.10281	B	1/0 AL URD	7.26Y	120.9	0.00	4.06	1.00	1	7	2	96	0.00	0.0	4.281	0.040	7	2	1	1
PL.68406	PL.68405	B	#4 ACSR	7.26Y	121.0	0.00	4.03	1.29	1	9	2	98	0.00	0.0	3.969	0.043	0	0	2	4
PL.68659	PL.68406	B	#4 ACSR	7.26Y	121.0	0.00	4.03	0.00	0	0	0	100	0.00	0.0	4.032	0.063	0	0	0	0
PL.68407	PL.68406	B	#4 ACSR	7.26Y	121.0	0.01	4.04	1.28	1	9	2	98	0.00	0.0	4.062	0.093	0	0	0	2
PL.68408	PL.68407	B	#4 ACSR	7.26Y	121.0	0.00	4.04	1.28	1	9	2	98	0.00	0.0	4.193	0.131	9	2	2	2
PL.68395	PL.68714	ABC	#1/0 ACSR	7.29Y	121.6	0.00	3.43	16.34	7	322	155	90	0.00	0.0	2.963	0.005	0	0	0	2
PD.10360	PL.68395	ABC	65T	7.29Y	121.6	0.00	3.43	16.34	0	322	155	90	0.00	0.0	2.963	0.005	0	0	0	2
PL.68653	PD.10360	ABC	#1/0 ACSR	7.29Y	121.6	0.00	3.43	16.34	7	322	155	90	0.00	0.0	2.969	0.005	0	0	0	2
PL.68396	PL.68653	ABC	#4 ACSR	7.29Y	121.5	0.06	3.49	16.34	13	322	155	90	0.16	0.1	3.064	0.096	0	0	0	2
PL.67990	PL.68396	ABC	#4 ACSR	7.29Y	121.4	0.06	3.55	16.05	12	316	153	90	0.16	0.1	3.163	0.098	0	0	0	1
PL.67991	PL.67990	ABC	#1/0 ACSR	7.29Y	121.4	0.01	3.57	16.05	7	316	153	90	0.03	0.0	3.205	0.042	0	0	0	1
PL.69060	PL.67991	ABC	1/0 AL URD	7.29Y	121.4	0.00	3.57	16.05	9	316	153	90	0.00	0.0	3.210	0.005	0	0	0	1
PD.10358	PL.69060	ABC	40T	7.29Y	121.4	0.00	3.57	16.05	0	316	153	90	0.00	0.0	3.210	0.005	0	0	0	1
PL.69061	PD.10358	ABC	1/0 AL URD	7.29Y	121.4	0.00	3.57	16.05	9	316	153	90	0.00	0.0	3.219	0.009	316	153	1	1
PL.68961	PL.68396	A	#1/0 ACSR	7.29Y	121.5	0.00	3.49	0.91	0	6	2	95	0.00	0.0	3.069	0.005	0	0	0	1
PD.10283	PL.68961	A	40T	7.29Y	121.5	0.00	3.49	0.91	0	6	2	95	0.00	0.0	3.069	0.005	0	0	0	1
PL.68962	PD.10283	A	#1/0 ACSR	7.29Y	121.5	0.00	3.49	0.91	0	6	2	95	0.00	0.0	3.117	0.047	6	2	1	1
PL.69027	PL.68366	A	#4 ACSR	7.32Y	122.0	0.00	3.01	2.81	2	20	5	97	0.00	0.0	2.445	0.005	0	0	0	1
PD.10319	PL.69027	A	20T	7.32Y	122.0	0.00	3.01	2.81	0	20	5	97	0.00	0.0	2.445	0.005	0	0	0	1
PL.69028	PD.10319	A	#4 ACSR	7.32Y	122.0	0.00	3.01	2.81	2	20	5	97	0.00	0.0	2.496	0.051	20	5	1	1
PL.68368	PL.68366	C	#4 ACSR	7.32Y	122.0	0.00	3.01	2.57	2	18	5	96	0.00	0.0	2.445	0.005	0	0	0	3
PD.10318	PL.68368	C	20T	7.32Y	122.0	0.00	3.01	2.57	0	18	5	96	0.00	0.0	2.445	0.005	0	0	0	3
PL.68645	PD.10318	C	#4 ACSR	7.32Y	122.0	0.00	3.01	0.73	1	5	1	98	0.00	0.0	2.509	0.064	5	1	1	1
PL.68367	PD.10318	C	#4 ACSR	7.32Y	122.0	0.00	3.01	1.84	1	13	3	97	0.00	0.0	2.537	0.092	13	3	2	2
PL.68369	PL.68366	ABC	#1/0 ACSR	7.32Y	122.0	0.03	3.03	14.91	6	316	84	97	0.06	0.0	2.543	0.102	0	0	0	59
PL.69082	PL.68369	ABC	#1/0 ACSR	7.32Y	122.0	0.00	3.03	14.91	6	316	84	97	0.00	0.0	2.545	0.003	0	0	0	59
PD.10372	PL.69082	ABC	35L	7.32Y	122.0	0.00	3.03	14.91	43	316	84	97	0.00	0.0	2.545	0.003	0	0	0	59
PL.69083	PD.10372	ABC	#1/0 ACSR	7.32Y	121.9	0.03	3.07	14.91	6	316	84	97	0.07	0.0	2.665	0.120	0	0	0	59

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Balanced Voltage Drop Report
Source: Tyner

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.68711	PL.69083	ABC	#1/0 ACSR	7.31Y	121.9	0.03	3.10	14.91	6	316	84	97	0.07	0.0	2.782	0.117	0	0	0	59
PL.68370	PL.68711	C	#4 ACSR	7.31Y	121.9	0.00	3.10	1.08	1	8	2	97	0.00	0.0	2.861	0.079	0	0	1	2
PL.68371	PL.68370	C	#1/0 ACSR	7.31Y	121.9	0.00	3.10	1.07	0	8	2	97	0.00	0.0	2.882	0.021	8	2	1	1
PL.68373	PL.68711	B	6 A (CWC)	7.31Y	121.9	0.05	3.15	9.63	7	68	18	97	0.03	0.0	2.896	0.114	0	0	0	21
PL.68736	PL.68373	B	#4 ACSR	7.31Y	121.8	0.01	3.16	3.71	3	26	7	97	0.00	0.0	2.976	0.081	4	1	4	9
PL.67992	PL.68736	B	#2 ACSR	7.31Y	121.8	0.00	3.16	0.36	0	3	1	95	0.00	0.0	3.124	0.147	3	1	2	2
PL.68737	PL.68736	B	#4 ACSR	7.31Y	121.8	0.01	3.17	2.82	2	20	5	97	0.00	0.0	3.048	0.071	10	3	2	3
PL.67994	PL.68737	B	#1/0 ACSR	7.31Y	121.8	0.00	3.17	1.43	1	10	3	96	0.00	0.0	3.089	0.041	10	3	1	1
PL.67993	PL.68373	B	6 A (CWC)	7.31Y	121.8	0.02	3.17	5.92	4	42	11	97	0.01	0.0	2.988	0.092	11	3	3	12
PL.67995	PL.67993	B	#4 ACSR	7.31Y	121.8	0.00	3.17	0.00	0	0	0	100	0.00	0.0	3.034	0.046	0	0	0	0
PL.68819	PL.67993	B	6 A (CWC)	7.31Y	121.8	0.01	3.18	4.34	3	31	8	97	0.00	0.0	3.068	0.080	6	2	2	9
PL.68820	PL.68819	B	6 A (CWC)	7.31Y	121.8	0.01	3.19	3.43	2	24	6	97	0.00	0.0	3.137	0.069	6	1	3	7
PL.68818	PL.68820	B	6 A (CWC)	7.31Y	121.8	0.00	3.20	2.64	2	19	5	97	0.00	0.0	3.160	0.023	0	0	0	4
PL.67996	PL.68818	B	6 A (CWC)	7.31Y	121.8	0.01	3.21	2.64	2	19	5	97	0.00	0.0	3.260	0.100	0	0	1	4
PL.67997	PL.67996	B	#4 ACSR	7.31Y	121.8	0.00	3.21	2.62	2	18	5	96	0.00	0.0	3.275	0.016	0	0	0	3
PL.67998	PL.67997	B	#4 ACSR	7.31Y	121.8	0.00	3.21	0.73	1	5	1	98	0.00	0.0	3.342	0.066	5	1	1	1
PL.68822	PL.67997	B	#4 ACSR	7.31Y	121.8	0.00	3.21	1.89	1	13	4	96	0.00	0.0	3.311	0.036	0	0	0	2
PL.68823	PL.68822	B	#4 ACSR	7.31Y	121.8	0.00	3.21	1.89	1	13	4	96	0.00	0.0	3.324	0.013	9	2	1	2
PL.68821	PL.68823	B	#4 ACSR	7.31Y	121.8	0.00	3.21	0.58	0	4	1	97	0.00	0.0	3.382	0.058	4	1	1	1
PL.68372	PL.68711	A	#4 ACSR	7.30Y	121.6	0.27	3.37	34.03	26	240	64	97	0.49	0.2	2.970	0.188	17	4	2	36
PL.68374	PL.68372	A	6 A (CWC)	7.28Y	121.4	0.24	3.61	31.64	23	223	59	97	0.40	0.2	3.134	0.165	0	0	0	34
PL.68375	PL.68374	A	#4 ACSR	7.28Y	121.4	0.00	3.61	1.30	1	9	2	98	0.00	0.0	3.245	0.111	9	2	1	1
PL.68376	PL.68374	A	6 A (CWC)	7.28Y	121.3	0.13	3.74	30.33	22	214	57	97	0.21	0.1	3.226	0.092	0	0	0	33
PL.68377	PL.68376	A	6 A (CWC)	7.27Y	121.2	0.01	3.75	6.77	5	48	13	97	0.01	0.0	3.274	0.048	0	0	1	7
PL.68379	PL.68377	A	6 A (CWC)	7.27Y	121.2	0.02	3.77	4.91	4	35	9	97	0.01	0.0	3.375	0.101	0	0	0	4
PL.67999	PL.68379	A	6 A (CWC)	7.27Y	121.2	0.03	3.80	4.91	4	35	9	97	0.01	0.0	3.492	0.116	0	0	0	4
PL.68000	PL.67999	A	6 A (CWC)	7.27Y	121.2	0.02	3.82	4.91	4	34	9	97	0.01	0.0	3.597	0.105	0	0	0	4
PL.68002	PL.68000	A	6 A (CWC)	7.27Y	121.2	0.00	3.83	1.68	1	12	3	97	0.00	0.0	3.660	0.063	12	3	1	1
PL.68001	PL.68000	A	#4 ACSR	7.27Y	121.1	0.03	3.85	3.22	2	23	6	97	0.00	0.0	3.782	0.185	0	0	0	3
PL.68798	PL.68001	A	#4 ACSR	7.27Y	121.1	0.00	3.85	1.91	1	13	4	96	0.00	0.0	3.893	0.111	13	4	1	2
PL.68799	PL.68798	A	#4 ACSR	7.27Y	121.1	0.00	3.85	0.00	0	0	0	100	0.00	0.0	3.957	0.063	0	0	1	1

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Balanced Voltage Drop Report
Source: Tyner

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.68490	PL.68001	A	#4 ACSR	7.27Y	121.1	0.00	3.85	1.31	1	9	2	98	0.00	0.0	3.840	0.058	9	2	1	1
PL.68378	PL.68377	A	#4 ACSR	7.27Y	121.2	0.01	3.76	1.81	1	13	3	97	0.00	0.0	3.341	0.066	0	0	0	2
PL.68894	PL.68378	A	#1/0 ACSR	7.27Y	121.2	0.00	3.76	1.81	1	13	3	97	0.00	0.0	3.345	0.005	0	0	0	2
PD.10271	PL.68894	A	15T	7.27Y	121.2	0.00	3.76	1.81	0	13	3	97	0.00	0.0	3.345	0.005	0	0	0	2
PL.68895	PD.10271	A	#1/0 ACSR	7.27Y	121.2	0.00	3.76	1.81	1	13	3	97	0.00	0.0	3.392	0.047	0	0	0	2
PL.69029	PL.68895	A	1/0 AL URD	7.27Y	121.2	0.00	3.76	1.81	1	13	3	97	0.00	0.0	3.396	0.005	0	0	0	2
PD.10320	PL.69029	A	10T	7.27Y	121.2	0.00	3.76	1.81	0	13	3	97	0.00	0.0	3.396	0.005	0	0	0	2
PL.69030	PD.10320	A	1/0 AL URD	7.27Y	121.2	0.00	3.76	1.81	1	13	3	97	0.00	0.0	3.426	0.030	13	3	2	2
PL.68647	PL.68376	A	6 A (CWC)	7.27Y	121.1	0.15	3.88	20.02	14	141	37	97	0.16	0.1	3.386	0.160	0	0	0	23
PL.68382	PL.68647	A	6 A (CWC)	7.27Y	121.1	0.00	3.89	2.05	1	14	4	96	0.00	0.0	3.465	0.079	14	4	1	1
PL.68778	PL.68647	A	#4 ACSR	7.27Y	121.1	0.01	3.89	3.36	3	24	6	97	0.00	0.0	3.465	0.079	6	2	2	4
PL.68779	PL.68778	A	#4 ACSR	7.27Y	121.1	0.01	3.91	2.53	2	18	5	96	0.00	0.0	3.592	0.127	0	0	0	2
PL.68384	PL.68779	A	#4 ACSR	7.27Y	121.1	0.01	3.91	2.53	2	18	5	96	0.00	0.0	3.647	0.055	0	0	0	2
PL.68649	PL.68384	A	#1/0 ACSR	7.27Y	121.1	0.00	3.92	1.51	1	11	3	96	0.00	0.0	3.818	0.171	11	3	1	1
PL.68385	PL.68384	A	#1/0 ACSR	7.27Y	121.1	0.00	3.91	1.02	0	7	2	96	0.00	0.0	3.689	0.042	7	2	1	1
PL.68383	PL.68647	A	6 A (CWC)	7.26Y	121.1	0.05	3.93	14.61	10	103	27	97	0.04	0.0	3.457	0.071	0	0	0	18
PL.68648	PL.68383	A	6 A (CWC)	7.26Y	121.0	0.02	3.95	13.27	9	93	25	97	0.02	0.0	3.498	0.041	7	2	1	17
PL.68782	PL.68648	A	6 A (CWC)	7.26Y	121.0	0.01	3.96	3.73	3	26	7	97	0.00	0.0	3.561	0.063	6	2	1	4
PL.68783	PL.68782	A	6 A (CWC)	7.26Y	121.0	0.01	3.98	2.81	2	20	5	97	0.00	0.0	3.668	0.107	0	0	0	3
PL.68650	PL.68783	A	6 A (CWC)	7.26Y	121.0	0.01	3.98	1.78	1	13	3	97	0.00	0.0	3.731	0.063	0	0	0	2
PL.68388	PL.68650	A	6 A (CWC)	7.26Y	121.0	0.00	3.98	1.78	1	13	3	97	0.00	0.0	3.769	0.038	13	3	2	2
PL.68387	PL.68783	A	#4 ACSR	7.26Y	121.0	0.00	3.98	1.03	1	7	2	96	0.00	0.0	3.741	0.073	7	2	1	1
PL.68389	PL.68648	A	6 A (CWC)	7.26Y	121.0	0.02	3.97	4.85	3	34	9	97	0.00	0.0	3.580	0.082	0	0	0	8
PL.68651	PL.68389	A	6 A (CWC)	7.26Y	121.0	0.01	3.98	4.09	3	29	8	96	0.00	0.0	3.613	0.033	10	3	2	5
PL.68392	PL.68651	A	6 A (CWC)	7.26Y	121.0	0.01	3.98	2.69	2	19	5	97	0.00	0.0	3.725	0.112	19	5	3	3
PL.68391	PL.68389	A	#1/0 ACSR	7.26Y	121.0	0.00	3.97	0.04	0	0	0	100	0.00	0.0	3.595	0.015	0	0	1	1
PL.68784	PL.68389	A	6 A (CWC)	7.26Y	121.0	0.00	3.97	0.72	1	5	1	98	0.00	0.0	3.695	0.116	3	1	1	2
PL.68785	PL.68784	A	6 A (CWC)	7.26Y	121.0	0.00	3.98	0.33	0	2	1	89	0.00	0.0	3.773	0.078	0	0	0	1
PL.68393	PL.68785	A	6 A (CWC)	7.26Y	121.0	0.00	3.98	0.33	0	2	1	89	0.00	0.0	3.831	0.058	2	1	1	1
PL.68780	PL.68648	A	6 A (CWC)	7.26Y	121.0	0.01	3.96	3.73	3	26	7	97	0.00	0.0	3.535	0.037	2	1	1	4
PL.68781	PL.68780	A	6 A (CWC)	7.26Y	121.0	0.01	3.97	3.43	2	24	6	97	0.00	0.0	3.613	0.079	10	3	2	3

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

Balanced Voltage Drop Report
Source: Tyner

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.68390	PL.68781	A	#1/0 ACSR	7.26Y	121.0	0.00	3.97	1.96	1	14	4	96	0.00	0.0	3.631	0.017	0	0	0	1
PL.69031	PL.68390	A	1/0 AL URD	7.26Y	121.0	0.00	3.97	1.96	1	14	4	96	0.00	0.0	3.635	0.005	0	0	0	1
PD.10321	PL.69031	A	15T	7.26Y	121.0	0.00	3.97	1.96	0	14	4	96	0.00	0.0	3.635	0.005	0	0	0	1
PL.68897	PD.10321	A	1/0 AL URD	7.26Y	121.0	0.00	3.97	1.96	1	14	4	96	0.00	0.0	3.653	0.018	14	4	1	1
PL.68386	PL.68383	A	#4 ACSR	7.26Y	121.1	0.00	3.93	1.34	1	9	2	98	0.00	0.0	3.495	0.038	9	2	1	1
PL.68734	PL.68376	A	#4 ACSR	7.27Y	121.2	0.01	3.75	3.55	3	25	7	96	0.00	0.0	3.313	0.087	0	0	0	3
PL.68380	PL.68734	A	#4 ACSR	7.27Y	121.2	0.00	3.75	1.14	1	8	2	97	0.00	0.0	3.357	0.044	8	2	1	1
PL.68735	PL.68734	A	#4 ACSR	7.27Y	121.2	0.01	3.76	2.41	2	17	4	97	0.00	0.0	3.381	0.068	8	2	1	2
PL.68381	PL.68735	A	#4 ACSR	7.27Y	121.2	0.00	3.76	1.30	1	9	2	98	0.00	0.0	3.434	0.054	9	2	1	1
PL.69025	PL.68710	C	#4 ACSR	7.33Y	122.2	0.00	2.83	1.28	1	9	2	98	0.00	0.0	2.259	0.005	0	0	0	2
PD.10317	PL.69025	C	65T	7.33Y	122.2	0.00	2.83	1.28	0	9	2	98	0.00	0.0	2.259	0.005	0	0	0	2
PL.69026	PD.10317	C	#4 ACSR	7.33Y	122.2	0.00	2.83	1.28	1	9	2	98	0.00	0.0	2.293	0.035	9	2	2	2
PL.68365	PL.68710	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.84	8.94	4	189	53	96	0.01	0.0	2.312	0.059	0	0	0	38
PL.69074	PL.68365	ABC	#1/0 ACSR	7.33Y	122.2	0.00	2.84	8.94	4	189	53	96	0.00	0.0	2.317	0.005	0	0	0	38
PD.10367-A	PL.69074	ABC	Closed	7.33Y	122.2	0.00	2.84	8.94	0	189	53	96	0.00	0.0	2.317	0.005	0	0	0	38
PD.10367-B	PD.10367-A	ABC	Closed	7.33Y	122.2	0.00	2.84	8.94	0	189	53	96	0.00	0.0	2.317	0.005	0	0	0	38
PL.69075	PD.10367-B	ABC	#1/0 ACSR	7.33Y	122.2	0.00	2.84	8.94	4	189	53	96	0.00	0.0	2.334	0.017	0	0	0	38
PL.68638	PL.69075	ABC	#1/0 ACSR	7.33Y	122.2	0.00	2.84	0.70	0	14	7	89	0.00	0.0	2.435	0.101	14	7	2	2
PL.68473	PL.69075	C	#4 ACSR	7.32Y	122.1	0.10	2.94	24.77	19	175	47	97	0.13	0.1	2.425	0.091	0	0	0	36
PL.68639	PL.68473	C	#4 ACSR	7.32Y	122.1	0.00	2.95	24.77	19	175	47	97	0.00	0.0	2.428	0.003	0	0	0	36
PD.10370	PL.68639	C	50L	7.32Y	122.1	0.00	2.95	24.77	50	175	47	97	0.00	0.0	2.428	0.003	0	0	0	36
PL.68474	PD.10370	C	#4 ACSR	7.32Y	121.9	0.11	3.05	22.02	17	156	41	97	0.13	0.1	2.538	0.110	0	0	0	32
PL.68475	PL.68474	C	#4 ACSR	7.32Y	121.9	0.00	3.06	1.06	1	8	2	97	0.00	0.0	2.631	0.093	2	1	1	2
PL.68476	PL.68475	C	#1/0 ACSR	7.32Y	121.9	0.00	3.06	0.77	0	5	1	98	0.00	0.0	2.702	0.071	5	1	1	1
PL.68477	PL.68474	C	#1/0 ACSR	7.32Y	121.9	0.00	3.05	1.06	0	8	2	97	0.00	0.0	2.614	0.076	8	2	1	1
PL.68641	PL.68474	C	#4 ACSR	7.31Y	121.8	0.11	3.16	19.89	15	141	37	97	0.12	0.1	2.661	0.123	0	0	0	29
PL.68828	PL.68641	C	#4 ACSR	7.31Y	121.8	0.04	3.20	19.89	15	141	37	97	0.04	0.0	2.709	0.048	21	5	4	29
PL.68829	PL.68828	C	#4 ACSR	7.30Y	121.7	0.10	3.30	16.95	13	120	32	97	0.09	0.1	2.844	0.136	7	2	1	25
PL.68830	PL.68829	C	#4 ACSR	7.30Y	121.6	0.05	3.35	15.93	12	112	30	97	0.04	0.0	2.920	0.076	9	2	1	24
PL.68479	PL.68830	C	#4 ACSR	7.30Y	121.6	0.00	3.36	2.08	2	15	4	97	0.00	0.0	2.970	0.050	8	2	2	4
PL.68480	PL.68479	C	#1/0 ACSR	7.30Y	121.6	0.00	3.36	0.98	0	7	2	96	0.00	0.0	3.030	0.060	7	2	2	2

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

Balanced Voltage Drop Report
Source: Tyner

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.68642	PL.68830	C	#4 ACSR	7.30Y	121.6	0.04	3.39	12.61	10	89	24	97	0.02	0.0	2.987	0.067	9	2	3	19
PL.68481	PL.68642	C	#4 ACSR	7.29Y	121.6	0.04	3.43	10.84	8	76	20	97	0.02	0.0	3.073	0.086	0	0	0	14
PL.68643	PL.68481	C	#4 ACSR	7.29Y	121.6	0.02	3.44	8.60	7	61	16	97	0.01	0.0	3.115	0.042	0	0	0	11
PL.68486	PL.68643	C	#4 ACSR	7.29Y	121.6	0.00	3.45	3.63	3	26	7	97	0.00	0.0	3.174	0.059	26	7	1	1
PL.68833	PL.68643	C	#4 ACSR	7.29Y	121.6	0.00	3.45	0.90	1	6	2	95	0.00	0.0	3.220	0.105	6	2	1	2
PL.68837	PL.68833	C	#4 ACSR	7.29Y	121.6	0.00	3.45	0.02	0	0	0	100	0.00	0.0	3.275	0.055	0	0	1	1
PL.68838	PL.68837	C	#4 ACSR	7.29Y	121.6	0.00	3.45	0.00	0	0	0	100	0.00	0.0	3.332	0.057	0	0	0	0
PL.68963	PL.68643	C	#4 ACSR	7.29Y	121.6	0.00	3.45	4.07	3	29	8	96	0.00	0.0	3.119	0.004	0	0	0	8
PD.10284	PL.68963	C	20T	7.29Y	121.6	0.00	3.45	4.07	0	29	8	96	0.00	0.0	3.119	0.004	0	0	0	8
PL.68964	PD.10284	C	#4 ACSR	7.29Y	121.5	0.03	3.47	4.07	3	29	8	96	0.01	0.0	3.267	0.148	3	1	1	8
PL.68487	PL.68964	C	#4 ACSR	7.29Y	121.5	0.01	3.48	3.62	3	26	7	97	0.00	0.0	3.320	0.053	0	0	0	7
PL.68488	PL.68487	C	#4 ACSR	7.29Y	121.5	0.00	3.48	0.64	0	5	1	98	0.00	0.0	3.347	0.027	5	1	2	2
PL.68831	PL.68487	C	#4 ACSR	7.29Y	121.5	0.02	3.50	2.98	2	21	6	96	0.00	0.0	3.474	0.154	4	1	1	5
PL.68832	PL.68831	C	#4 ACSR	7.29Y	121.5	0.01	3.50	2.37	2	17	4	97	0.00	0.0	3.544	0.069	9	2	2	4
PL.68644	PL.68832	C	#4 ACSR	7.29Y	121.5	0.00	3.50	0.00	0	0	0	100	0.00	0.0	3.621	0.077	0	0	0	0
PL.68489	PL.68832	C	#4 ACSR	7.29Y	121.5	0.00	3.50	1.06	1	7	2	96	0.00	0.0	3.589	0.046	7	2	2	2
PL.68484	PL.68481	C	#4 ACSR	7.29Y	121.6	0.00	3.43	2.23	2	16	4	97	0.00	0.0	3.137	0.064	16	4	3	3
PL.68485	PL.68481	C	#4 ACSR	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	3.129	0.056	0	0	0	0
PL.68965	PL.68642	C	6 A (CWC)	7.30Y	121.6	0.00	3.39	0.49	0	3	1	95	0.00	0.0	2.991	0.004	0	0	0	2
PD.10285	PL.68965	C	20T	7.30Y	121.6	0.00	3.39	0.49	0	3	1	95	0.00	0.0	2.991	0.004	0	0	0	2
PL.68966	PD.10285	C	6 A (CWC)	7.30Y	121.6	0.00	3.39	0.49	0	3	1	95	0.00	0.0	3.107	0.115	0	0	1	2
PL.68834	PL.68966	C	6 A (CWC)	7.30Y	121.6	0.00	3.39	0.45	0	3	1	95	0.00	0.0	3.196	0.089	0	0	0	1
PL.68482	PL.68834	C	6 A (CWC)	7.30Y	121.6	0.00	3.39	0.45	0	3	1	95	0.00	0.0	3.356	0.160	0	0	0	1
PL.68483	PL.68482	C	6 A (CWC)	7.30Y	121.6	0.00	3.40	0.45	0	3	1	95	0.00	0.0	3.394	0.038	3	1	1	1
PL.68640	PD.10370	C	#4 ACSR	7.32Y	122.0	0.01	2.95	2.75	2	19	5	97	0.00	0.0	2.528	0.100	19	5	4	4
PL.69023	PL.68360	C	#1/0 ACSR	7.35Y	122.6	0.00	2.42	1.00	0	7	2	96	0.00	0.0	1.857	0.005	0	0	0	1
PD.10316	PL.69023	C	65T	7.35Y	122.6	0.00	2.42	1.00	0	7	2	96	0.00	0.0	1.857	0.005	0	0	0	1
PL.69024	PD.10316	C	#1/0 ACSR	7.35Y	122.6	0.00	2.42	1.00	0	7	2	96	0.00	0.0	1.902	0.045	0	0	0	1
PL.68363	PL.69024	C	#4 ACSR	7.35Y	122.6	0.00	2.42	1.00	1	7	2	96	0.00	0.0	1.917	0.015	7	2	1	1
PL.69076	PL.68707	A	#1/0 ACSR	7.36Y	122.7	0.00	2.26	24.97	11	178	47	97	0.00	0.0	1.699	0.003	0	0	0	32
PD.10368	PL.69076	A	50L	7.36Y	122.7	0.00	2.26	24.97	50	178	47	97	0.00	0.0	1.699	0.003	0	0	0	32

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Balanced Voltage Drop Report
Source: Tyner

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.69077	PD.10368	A	#1/0 ACSR	7.36Y	122.7	0.03	2.29	24.97	11	178	47	97	0.04	0.0	1.754	0.054	0	0	0	32
PL.68362	PL.69077	A	#1/0 ACSR	7.36Y	122.6	0.07	2.36	24.70	11	176	47	97	0.08	0.0	1.866	0.112	0	0	0	30
PL.68453	PL.68362	A	#1/0 ACSR	7.35Y	122.5	0.10	2.46	24.70	11	176	47	97	0.12	0.1	2.038	0.172	0	0	0	30
PL.68454	PL.68453	A	#4 ACSR	7.35Y	122.5	0.00	2.46	0.61	0	4	1	97	0.00	0.0	2.108	0.070	4	1	1	2
PL.68455	PL.68454	A	#1/0 ACSR	7.35Y	122.5	0.00	2.46	0.01	0	0	0	100	0.00	0.0	2.143	0.035	0	0	1	1
PL.68630	PL.68453	A	#1/0 ACSR	7.35Y	122.5	0.03	2.49	24.09	10	171	45	97	0.04	0.0	2.093	0.056	0	0	0	28
PL.68456	PL.68630	A	6 A (CWC)	7.35Y	122.5	0.00	2.49	1.39	1	10	3	96	0.00	0.0	2.159	0.065	10	3	2	2
PL.68631	PL.68630	A	#1/0 ACSR	7.35Y	122.5	0.06	2.55	22.69	10	161	43	97	0.06	0.0	2.200	0.107	6	2	1	26
PL.68457	PL.68631	A	#4 ACSR	7.35Y	122.4	0.00	2.55	1.78	1	13	3	97	0.00	0.0	2.245	0.045	1	0	1	4
PL.68826	PL.68457	A	#1/0 ACSR	7.35Y	122.4	0.00	2.55	1.58	1	11	3	96	0.00	0.0	2.322	0.077	4	1	2	3
PL.68827	PL.68826	A	#1/0 ACSR	7.35Y	122.4	0.00	2.55	1.01	0	7	2	96	0.00	0.0	2.411	0.089	7	2	1	1
PL.68459	PL.68631	A	#1/0 ACSR	7.34Y	122.4	0.04	2.59	20.02	9	142	38	97	0.04	0.0	2.291	0.091	0	0	0	21
PL.68460	PL.68459	A	#1/0 ACSR	7.34Y	122.4	0.02	2.61	9.81	4	70	18	97	0.01	0.0	2.390	0.099	0	0	0	12
PL.68708	PL.68460	A	#1/0 ACSR	7.34Y	122.4	0.02	2.63	9.81	4	70	18	97	0.01	0.0	2.488	0.097	12	3	2	12
PL.68465	PL.68708	A	6 A (CWC)	7.34Y	122.4	0.00	2.64	1.80	1	13	3	97	0.00	0.0	2.541	0.053	13	3	1	1
PL.68466	PL.68708	A	#1/0 ACSR	7.34Y	122.3	0.02	2.66	6.37	3	45	12	97	0.01	0.0	2.624	0.136	0	0	0	9
PL.68709	PL.68466	A	#1/0 ACSR	7.34Y	122.3	0.02	2.68	6.37	3	45	12	97	0.01	0.0	2.752	0.128	0	0	0	9
PL.68632	PL.68709	A	#1/0 ACSR	7.34Y	122.3	0.01	2.68	4.94	2	35	9	97	0.00	0.0	2.806	0.055	2	1	1	7
PL.68633	PL.68632	A	#1/0 ACSR	7.34Y	122.3	0.01	2.69	2.04	1	14	4	96	0.00	0.0	2.917	0.111	0	0	0	2
PL.68472	PL.68633	A	#1/0 ACSR	7.34Y	122.3	0.00	2.69	0.00	0	0	0	100	0.00	0.0	2.959	0.041	0	0	0	0
PD.11609-B	PL.68472	A	Open	7.34Y	122.3	0.00	2.69	0.00	0	0	0	100	0.00	0.0	2.959	0.041	0	0	0	0
PL.68471	PL.68633	A	6 A (CWC)	7.34Y	122.3	0.00	2.69	2.04	1	14	4	96	0.00	0.0	2.966	0.049	8	2	1	2
PL.68470	PL.68471	A	#1/0 ACSR	7.34Y	122.3	0.00	2.69	0.89	0	6	2	95	0.00	0.0	3.008	0.042	6	2	1	1
PL.68469	PL.68632	A	#4 ACSR	7.34Y	122.3	0.01	2.69	2.56	2	18	5	96	0.00	0.0	2.875	0.069	8	2	2	4
PL.68816	PL.68469	A	#1/0 ACSR	7.34Y	122.3	0.00	2.69	1.46	1	10	3	96	0.00	0.0	2.938	0.063	6	2	1	2
PL.68817	PL.68816	A	#1/0 ACSR	7.34Y	122.3	0.00	2.69	0.59	0	4	1	97	0.00	0.0	2.970	0.032	4	1	1	1
PL.68468	PL.68709	A	6 A (CWC)	7.34Y	122.3	0.00	2.68	1.08	1	8	2	97	0.00	0.0	2.850	0.098	8	2	1	1
PL.68467	PL.68709	A	6 A (CWC)	7.34Y	122.3	0.00	2.68	0.35	0	3	1	95	0.00	0.0	2.807	0.055	3	1	1	1
PL.68824	PL.68459	A	#4 ACSR	7.34Y	122.4	0.02	2.61	8.12	6	58	15	97	0.01	0.0	2.363	0.072	9	2	1	8
PL.68825	PL.68824	A	#4 ACSR	7.34Y	122.4	0.02	2.64	6.88	5	49	13	97	0.01	0.0	2.448	0.085	11	3	1	7
PL.68461	PL.68825	A	6 A (CWC)	7.34Y	122.3	0.04	2.68	5.34	4	38	10	97	0.01	0.0	2.603	0.155	0	0	0	6

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Balanced Voltage Drop Report
Source: Tyner

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.68634	PL.68461	A	6 A (CWC)	7.34Y	122.3	0.00	2.68	1.25	1	9	2	98	0.00	0.0	2.680	0.078	9	2	1	1
PL.68462	PL.68461	A	6 A (CWC)	7.34Y	122.3	0.00	2.68	1.48	1	11	3	96	0.00	0.0	2.675	0.073	11	3	1	1
PL.68463	PL.68461	A	#4 ACSR	7.34Y	122.3	0.00	2.68	0.92	1	7	2	96	0.00	0.0	2.662	0.059	7	2	3	3
PL.68464	PL.68461	A	#4 ACSR	7.34Y	122.3	0.00	2.68	1.68	1	12	3	97	0.00	0.0	2.637	0.034	12	3	1	1
PL.68458	PL.68459	A	6 A (CWC)	7.34Y	122.4	0.00	2.59	2.09	1	15	4	97	0.00	0.0	2.373	0.082	15	4	1	1
PL.68361	PL.69077	A	#4 ACSR	7.36Y	122.7	0.00	2.29	0.27	0	2	1	89	0.00	0.0	1.869	0.115	2	1	2	2
PL.69021	PL.68707	A	#4 ACSR	7.36Y	122.7	0.00	2.26	0.49	0	3	1	95	0.00	0.0	1.701	0.005	0	0	0	1
PD.10315	PL.69021	A	65T	7.36Y	122.7	0.00	2.26	0.49	0	3	1	95	0.00	0.0	1.701	0.005	0	0	0	1
PL.69022	PD.10315	A	#4 ACSR	7.36Y	122.7	0.00	2.26	0.49	0	3	1	95	0.00	0.0	1.711	0.010	3	1	1	1
PL.69019	PL.68359	A	#2 ACSR	7.38Y	123.1	0.00	1.92	1.20	1	9	2	98	0.00	0.0	1.393	0.005	0	0	0	1
PD.10314	PL.69019	A	65T	7.38Y	123.1	0.00	1.92	1.20	0	9	2	98	0.00	0.0	1.393	0.005	0	0	0	1
PL.69020	PD.10314	A	#2 ACSR	7.38Y	123.1	0.00	1.92	1.20	1	9	2	98	0.00	0.0	1.449	0.055	9	2	1	1
PL.68960	PL.68352	C	#2 ACSR	7.42Y	123.7	0.00	1.27	0.86	0	6	2	95	0.00	0.0	0.866	0.005	0	0	0	2
PD.10282	PL.68960	C	65T	7.42Y	123.7	0.00	1.27	0.86	0	6	2	95	0.00	0.0	0.866	0.005	0	0	0	2
PL.68959	PD.10282	C	#2 ACSR	7.42Y	123.7	0.00	1.27	0.86	0	6	2	95	0.00	0.0	0.919	0.053	6	2	2	2
PL.68347	PL.67774	A	#1/0 ACSR	7.44Y	124.0	0.00	1.04	18.64	8	134	36	97	0.00	0.0	0.702	0.005	0	0	0	31
PD.10305	PL.68347	A	25T	7.44Y	124.0	0.00	1.04	18.64	0	134	36	97	0.00	0.0	0.702	0.005	0	0	0	31
PL.68772	PD.10305	A	#1/0 ACSR	7.44Y	124.0	0.01	1.05	17.32	8	125	33	97	0.00	0.0	0.718	0.016	12	3	3	30
PL.68773	PL.68772	A	#1/0 ACSR	7.44Y	123.9	0.01	1.06	15.62	7	112	30	97	0.01	0.0	0.752	0.034	0	0	0	27
PL.68348	PL.68773	A	#1/0 ACSR	7.44Y	123.9	0.01	1.07	6.07	3	44	12	96	0.00	0.0	0.801	0.050	0	0	0	12
PL.68770	PL.68348	A	#4 ACSR	7.44Y	123.9	0.01	1.08	6.07	5	44	12	96	0.00	0.0	0.840	0.038	18	5	3	12
PL.68771	PL.68770	A	#4 ACSR	7.44Y	123.9	0.00	1.08	3.61	3	26	7	97	0.00	0.0	0.867	0.027	7	2	1	9
PL.68749	PL.68771	A	#4 ACSR	7.43Y	123.9	0.01	1.09	2.67	2	19	5	97	0.00	0.0	0.920	0.054	2	1	1	8
PL.68743	PL.68749	A	#4 ACSR	7.43Y	123.9	0.01	1.09	2.38	2	17	5	96	0.00	0.0	0.987	0.066	2	1	1	7
PL.68744	PL.68743	A	#4 ACSR	7.43Y	123.9	0.00	1.09	2.04	2	15	4	97	0.00	0.0	1.025	0.038	6	2	2	6
PL.68740	PL.68744	A	#4 ACSR	7.43Y	123.9	0.00	1.10	1.21	1	9	2	98	0.00	0.0	1.056	0.031	9	2	4	4
PL.68349	PL.68773	A	#1/0 ACSR	7.44Y	123.9	0.01	1.07	9.55	4	69	18	97	0.00	0.0	0.795	0.043	0	0	0	15
PL.68766	PL.68349	A	#1/0 ACSR	7.44Y	123.9	0.00	1.07	1.83	1	13	3	97	0.00	0.0	0.831	0.037	9	2	2	3
PL.68767	PL.68766	A	#1/0 ACSR	7.44Y	123.9	0.00	1.07	0.62	0	4	1	97	0.00	0.0	0.887	0.056	4	1	1	1
PL.68768	PL.68349	A	#4 ACSR	7.43Y	123.9	0.02	1.09	7.73	6	56	15	97	0.01	0.0	0.858	0.064	15	4	1	12
PL.68769	PL.68768	A	#4 ACSR	7.43Y	123.9	0.01	1.10	5.58	4	40	11	96	0.00	0.0	0.901	0.043	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: Tyner

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.68350	PL.68769	A	#4 ACSR	7.43Y	123.9	0.00	1.10	3.79	3	27	7	97	0.00	0.0	0.936	0.035	17	4	4	6
PL.68351	PL.68350	A	#1/0 ACSR	7.43Y	123.9	0.00	1.10	1.44	1	10	3	96	0.00	0.0	0.971	0.035	10	3	2	2
PL.68621	PL.68769	A	#4 ACSR	7.43Y	123.9	0.00	1.10	1.79	1	13	3	97	0.00	0.0	0.947	0.046	13	3	5	5
PL.68346	PD.10305	A	#1/0 ACSR	7.44Y	124.0	0.00	1.04	1.32	1	10	3	96	0.00	0.0	0.731	0.029	10	3	1	1
PL.69001	PL.68338	C	#1/0 ACSR	7.46Y	124.3	0.00	0.74	1.83	1	13	3	97	0.00	0.0	0.495	0.005	0	0	0	5
PD.10304	PL.69001	C	65T	7.46Y	124.3	0.00	0.74	1.83	0	13	3	97	0.00	0.0	0.495	0.005	0	0	0	5
PL.69002	PD.10304	C	#1/0 ACSR	7.46Y	124.3	0.00	0.74	1.83	1	13	3	97	0.00	0.0	0.512	0.017	0	0	0	5
PL.68344	PL.69002	C	#4 ACSR	7.46Y	124.3	0.00	0.74	1.83	1	13	3	97	0.00	0.0	0.557	0.045	13	3	5	5
PL.68339	PL.68337	B	#1/0 ACSR	7.46Y	124.3	0.02	0.68	13.44	6	97	26	97	0.01	0.0	0.488	0.052	0	0	0	29
PL.68884	PL.68339	B	#1/0 ACSR	7.46Y	124.3	0.00	0.68	13.44	6	97	26	97	0.00	0.0	0.493	0.005	0	0	0	29
PD.10265	PL.68884	B	65T	7.46Y	124.3	0.00	0.68	13.44	0	97	26	97	0.00	0.0	0.493	0.005	0	0	0	29
PL.68885	PD.10265	B	#1/0 ACSR	7.46Y	124.3	0.04	0.72	13.44	6	97	26	97	0.02	0.0	0.614	0.121	8	2	6	29
PL.68340	PL.68885	B	#1/0 ACSR	7.46Y	124.3	0.01	0.73	12.28	5	88	23	97	0.01	0.0	0.662	0.048	11	3	1	23
PL.68341	PL.68340	B	#2 ACSR	7.46Y	124.3	0.02	0.75	10.72	6	77	20	97	0.01	0.0	0.717	0.055	0	0	0	22
PL.68752	PL.68341	B	#2 ACSR	7.45Y	124.2	0.01	0.75	10.72	6	77	20	97	0.00	0.0	0.739	0.023	11	3	2	22
PL.68753	PL.68752	B	#2 ACSR	7.45Y	124.2	0.01	0.76	9.19	5	66	18	96	0.00	0.0	0.762	0.023	0	0	0	20
PL.68738	PL.68753	B	#2 ACSR	7.45Y	124.2	0.01	0.77	7.80	4	56	15	97	0.00	0.0	0.808	0.046	0	0	0	18
PL.68343	PL.68738	B	#2 ACSR	7.45Y	124.2	0.00	0.77	0.99	1	7	2	96	0.00	0.0	0.824	0.016	7	2	3	3
PL.68750	PL.68738	B	#2 ACSR	7.45Y	124.2	0.01	0.78	6.81	4	49	13	97	0.00	0.0	0.840	0.033	21	5	7	15
PL.68754	PL.68750	B	#2 ACSR	7.45Y	124.2	0.00	0.78	3.96	2	29	8	96	0.00	0.0	0.878	0.038	11	3	2	8
PL.68755	PL.68754	B	#2 ACSR	7.45Y	124.2	0.00	0.78	2.40	1	17	5	96	0.00	0.0	0.927	0.049	11	3	2	6
PL.68751	PL.68755	B	#2 ACSR	7.45Y	124.2	0.00	0.78	0.92	1	7	2	96	0.00	0.0	0.958	0.031	7	2	4	4
PL.68342	PL.68753	B	#2 ACSR	7.45Y	124.2	0.00	0.76	1.39	1	10	3	96	0.00	0.0	0.774	0.012	10	3	2	2
PL.68330	Tyner	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	156.86	30	3367	1060	95	0.06	0.0	0.003	0.003	0	0	0	679
PL.72923	PL.68330	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	156.86	30	3366	1060	95	0.04	0.0	0.005	0.002	0	0	0	679
---------- Feeder No. 3 (Egypt F3) Beginning with Device PD.11203 ----------																				
PD.11203	PL.72923	ABC	360VWE	7.50Y	125.0	0.00	0.01	156.86	0	3366	1059	95	0.00	0.0	0.005	0.002	0	0	0	679
PL.72924	PD.11203	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	156.86	30	3366	1059	95	0.10	0.0	0.009	0.005	0	0	0	679
PL.68333	PL.72924	ABC	336 MCM AC	7.50Y	125.0	0.01	0.02	156.86	30	3366	1059	95	0.20	0.0	0.019	0.010	0	0	0	679

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: Tyner

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.68334	PL.68333	ABC	336 MCM AC	7.50Y	124.9	0.05	0.07	156.86	30	3366	1059	95	0.84	0.0	0.060	0.040	0	0	0	679
PL.70149	PL.68334	ABC	336 MCM AC	7.49Y	124.8	0.10	0.17	156.86	30	3365	1057	95	1.73	0.1	0.143	0.084	0	0	2	679
PL.70150	PL.70149	ABC	336 MCM AC	7.48Y	124.7	0.09	0.27	156.84	30	3363	1053	95	1.57	0.0	0.219	0.076	2	1	1	677
PL.70103	PL.70150	ABC	336 MCM AC	7.48Y	124.7	0.04	0.31	156.75	30	3360	1048	95	0.73	0.0	0.254	0.035	9	2	1	676
PL.70104	PL.70103	ABC	336 MCM AC	7.48Y	124.7	0.04	0.35	156.32	30	3350	1044	95	0.68	0.0	0.287	0.033	0	0	0	675
PL.69910	PL.70104	ABC	336 MCM AC	7.48Y	124.6	0.04	0.39	153.49	30	3287	1026	95	0.68	0.0	0.321	0.034	2	1	1	664
PL.70288	PL.69910	C	#4 ACSR	7.48Y	124.6	0.00	0.39	0.54	0	4	1	97	0.00	0.0	0.325	0.004	0	0	0	1
PD.10469	PL.70288	C	65T	7.48Y	124.6	0.00	0.39	0.54	0	4	1	97	0.00	0.0	0.325	0.004	0	0	0	1
PL.70289	PD.10469	C	#4 ACSR	7.48Y	124.6	0.00	0.39	0.54	0	4	1	97	0.00	0.0	0.340	0.015	4	1	1	1
PL.69911	PL.69910	ABC	336 MCM AC	7.47Y	124.6	0.03	0.42	153.21	30	3281	1023	95	0.48	0.0	0.345	0.024	0	0	0	662
PL.68742	PL.69911	ABC	336 MCM AC	7.47Y	124.5	0.08	0.49	153.21	30	3280	1022	95	1.26	0.0	0.409	0.064	0	0	0	662
PL.70518	PL.68742	ABC	336 MCM AC	7.47Y	124.5	0.04	0.53	153.21	30	3279	1019	95	0.62	0.0	0.440	0.031	10	3	1	662
PL.69651	PL.70518	ABC	336 MCM AC	7.46Y	124.4	0.08	0.60	152.76	29	3268	1015	95	1.26	0.0	0.504	0.064	10	3	2	661
PL.69912	PL.69651	ABC	336 MCM AC	7.46Y	124.3	0.11	0.71	152.03	29	3251	1008	96	1.76	0.1	0.595	0.091	0	0	0	657
PL.69913	PL.69912	ABC	336 MCM AC	7.45Y	124.2	0.12	0.83	151.65	29	3241	1002	96	1.96	0.1	0.696	0.101	4	1	3	655
PL.70408	PL.69913	A	6 A (CWC)	7.45Y	124.2	0.00	0.83	2.78	2	20	5	97	0.00	0.0	0.701	0.005	0	0	0	4
PD.10532	PL.70408	A	65T	7.45Y	124.2	0.00	0.83	2.78	0	20	5	97	0.00	0.0	0.701	0.005	0	0	0	4
PL.70409	PD.10532	A	6 A (CWC)	7.45Y	124.2	0.01	0.84	2.78	2	20	5	97	0.00	0.0	0.759	0.058	2	1	1	4
PL.70105	PL.70409	A	#2 ACSR	7.45Y	124.2	0.00	0.84	1.67	1	12	3	97	0.00	0.0	0.775	0.016	7	2	1	2
PL.70106	PL.70105	A	#2 ACSR	7.45Y	124.2	0.00	0.84	0.70	0	5	1	98	0.00	0.0	0.826	0.050	5	1	1	1
PL.69652	PL.70409	A	#4 ACSR	7.45Y	124.2	0.00	0.84	0.82	1	6	2	95	0.00	0.0	0.797	0.038	6	2	1	1
PL.70115	PL.69913	ABC	336 MCM AC	7.45Y	124.1	0.05	0.88	150.56	29	3216	991	96	0.80	0.0	0.738	0.042	5	1	1	648
PL.70116	PL.70115	ABC	336 MCM AC	7.44Y	124.0	0.11	0.99	150.35	29	3211	988	96	1.83	0.1	0.834	0.096	8	2	2	647
PL.69653	PL.70116	ABC	336 MCM AC	7.43Y	123.9	0.13	1.12	149.63	29	3193	979	96	2.15	0.1	0.949	0.114	6	2	1	642
PL.69655	PL.69653	C	6 A (CWC)	7.43Y	123.9	0.01	1.12	30.91	22	222	59	97	0.01	0.0	0.953	0.004	0	0	0	49
PD.10472	PL.69655	C	140CodeSMo	7.43Y	123.9	0.00	1.12	30.91	0	222	59	97	0.00	0.0	0.953	0.004	0	0	0	49
PL.69914	PD.10472	C	6 A (CWC)	7.43Y	123.8	0.07	1.20	30.88	22	222	59	97	0.12	0.1	1.005	0.052	0	0	0	48
PL.69658	PL.69914	C	6 A (CWC)	7.43Y	123.8	0.00	1.20	0.00	0	0	0	100	0.00	0.0	1.098	0.093	0	0	0	0
PL.69915	PL.69914	C	6 A (CWC)	7.42Y	123.7	0.09	1.29	28.68	20	206	55	97	0.14	0.1	1.076	0.071	0	0	0	46
PL.70111	PL.69915	C	6 A (CWC)	7.41Y	123.6	0.14	1.43	26.76	19	192	51	97	0.20	0.1	1.197	0.121	12	3	2	40
PL.70112	PL.70111	C	6 A (CWC)	7.41Y	123.5	0.08	1.51	25.12	18	180	48	97	0.10	0.1	1.264	0.067	0	0	0	38

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: Tyner

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.69916	PL.70112	C	6 A (CWC)	7.41Y	123.5	0.02	1.53	23.97	17	172	46	97	0.03	0.0	1.282	0.019	0	0	0	35
PL.70109	PL.69916	C	6 A (CWC)	7.40Y	123.4	0.05	1.58	22.85	16	164	43	97	0.06	0.0	1.339	0.056	31	8	7	33
PL.70110	PL.70109	C	6 A (CWC)	7.40Y	123.4	0.05	1.64	18.49	13	132	35	97	0.05	0.0	1.403	0.065	16	4	2	26
PL.70368	PL.70110	C	6 A (CWC)	7.40Y	123.4	0.00	1.64	10.61	8	76	20	97	0.00	0.0	1.408	0.005	0	0	0	13
PD.10510	PL.70368	C	40T	7.40Y	123.4	0.00	1.64	10.61	0	76	20	97	0.00	0.0	1.408	0.005	0	0	0	13
PL.70369	PD.10510	C	6 A (CWC)	7.40Y	123.3	0.05	1.69	10.61	8	76	20	97	0.03	0.0	1.513	0.105	0	0	0	13
PL.69667	PL.70369	C	6 A (CWC)	7.40Y	123.3	0.00	1.69	2.12	2	15	4	97	0.00	0.0	1.594	0.081	15	4	2	2
PL.69666	PL.70369	C	6 A (CWC)	7.40Y	123.3	0.03	1.72	5.34	4	38	10	97	0.01	0.0	1.639	0.126	0	0	0	8
PL.69672	PL.69666	C	6 A (CWC)	7.40Y	123.3	0.01	1.73	5.34	4	38	10	97	0.00	0.0	1.708	0.069	9	2	1	8
PL.69673	PL.69672	C	#4 ACSR	7.40Y	123.3	0.00	1.74	3.16	2	23	6	97	0.00	0.0	1.724	0.016	6	2	2	5
PL.70098	PL.69673	C	#4 ACSR	7.40Y	123.3	0.01	1.74	2.36	2	17	4	97	0.00	0.0	1.795	0.072	4	1	1	3
PL.70099	PL.70098	C	#4 ACSR	7.40Y	123.3	0.00	1.74	1.82	1	13	3	97	0.00	0.0	1.841	0.046	13	3	2	2
PL.70097	PL.70099	C	#4 ACSR	7.40Y	123.3	0.00	1.74	0.00	0	0	0	100	0.00	0.0	1.929	0.088	0	0	0	0
PL.69671	PL.69672	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	0.98	0	7	2	96	0.00	0.0	1.755	0.047	7	2	2	2
PL.69665	PL.70369	C	6 A (CWC)	7.40Y	123.3	0.02	1.71	3.16	2	23	6	97	0.00	0.0	1.678	0.165	12	3	2	3
PL.69674	PL.69665	C	#1/0 ACSR	7.40Y	123.3	0.00	1.71	1.47	1	11	3	96	0.00	0.0	1.781	0.104	11	3	1	1
PL.70292	PL.70110	C	#4 ACSR	7.40Y	123.4	0.00	1.64	5.65	4	40	11	96	0.00	0.0	1.408	0.005	0	0	0	11
PD.10471	PL.70292	C	40T	7.40Y	123.4	0.00	1.64	5.65	0	40	11	96	0.00	0.0	1.408	0.005	0	0	0	11
PL.70293	PD.10471	C	#4 ACSR	7.40Y	123.4	0.01	1.64	5.65	4	40	11	96	0.00	0.0	1.434	0.027	6	1	1	11
PL.70124	PL.70293	C	#4 ACSR	7.40Y	123.4	0.01	1.65	4.88	4	35	9	97	0.00	0.0	1.467	0.033	2	1	1	10
PL.70123	PL.70124	C	#4 ACSR	7.40Y	123.3	0.01	1.66	4.55	4	33	9	96	0.00	0.0	1.526	0.059	12	3	3	9
PL.70100	PL.70123	C	#1/0 ACSR	7.40Y	123.3	0.00	1.66	2.94	1	21	6	96	0.00	0.0	1.548	0.023	5	1	1	6
PL.70101	PL.70100	C	#1/0 ACSR	7.40Y	123.3	0.00	1.66	2.19	1	16	4	97	0.00	0.0	1.589	0.041	0	0	1	5
PL.69669	PL.70101	C	#1/0 ACSR	7.40Y	123.3	0.00	1.66	0.62	0	4	1	97	0.00	0.0	1.646	0.057	4	1	1	1
PL.69668	PL.70101	C	#1/0 ACSR	7.40Y	123.3	0.00	1.66	1.56	1	11	3	96	0.00	0.0	1.633	0.044	9	2	2	3
PL.69670	PL.69668	C	#1/0 ACSR	7.40Y	123.3	0.00	1.66	0.33	0	2	1	89	0.00	0.0	1.667	0.034	2	1	1	1
PL.69664	PL.69916	C	#4 ACSR	7.41Y	123.5	0.00	1.53	1.12	1	8	2	97	0.00	0.0	1.307	0.025	8	2	2	2
PL.69663	PL.70112	C	#4 ACSR	7.41Y	123.5	0.00	1.51	1.15	1	8	2	97	0.00	0.0	1.333	0.069	8	2	3	3
PL.69659	PL.69915	C	#4 ACSR	7.42Y	123.7	0.00	1.30	1.92	1	14	4	96	0.00	0.0	1.117	0.041	0	0	0	6
PL.69660	PL.69659	C	#4 ACSR	7.42Y	123.7	0.00	1.30	0.98	1	7	2	96	0.00	0.0	1.150	0.033	7	2	1	3
PL.70107	PL.69660	C	#1/0 ACSR	7.42Y	123.7	0.00	1.30	0.01	0	0	0	100	0.00	0.0	1.225	0.074	0	0	1	2

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Balanced Voltage Drop Report
Source: Tyner

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.70108	PL.70107	C	#1/0 ACSR	7.42Y	123.7	0.00	1.30	0.00	0	0	0	100	0.00	0.0	1.319	0.094	0	0	1	1
PL.69661	PL.69659	C	#1/0 ACSR	7.42Y	123.7	0.00	1.30	0.94	0	7	2	96	0.00	0.0	1.159	0.042	7	2	1	3
PL.69662	PL.69661	C	#1/0 ACSR	7.42Y	123.7	0.00	1.30	0.01	0	0	0	100	0.00	0.0	1.221	0.062	0	0	2	2
PL.70113	PL.69914	C	#4 ACSR	7.43Y	123.8	0.00	1.20	2.20	2	16	4	97	0.00	0.0	1.039	0.034	16	4	1	2
PL.70114	PL.70113	C	#4 ACSR	7.43Y	123.8	0.00	1.20	0.01	0	0	0	100	0.00	0.0	1.083	0.044	0	0	1	1
PL.69654	PD.10472	C	#4 ACSR	7.43Y	123.9	0.00	1.12	0.03	0	0	0	100	0.00	0.0	1.019	0.067	0	0	0	1
PL.69657	PL.69654	C	#4 ACSR	7.43Y	123.9	0.00	1.12	0.03	0	0	0	100	0.00	0.0	1.080	0.061	0	0	1	1
PL.69656	PL.69653	ABC	336 MCM AC	7.43Y	123.8	0.09	1.21	139.06	27	2963	914	96	1.33	0.0	1.030	0.082	4	1	1	592
PL.70296	PL.69656	A	6 A (CWC)	7.43Y	123.8	0.00	1.21	1.94	1	14	4	96	0.00	0.0	1.034	0.004	0	0	0	2
PD.10474	PL.70296	A	65T	7.43Y	123.8	0.00	1.21	1.94	0	14	4	96	0.00	0.0	1.034	0.004	0	0	0	2
PL.70297	PD.10474	A	6 A (CWC)	7.43Y	123.8	0.00	1.21	1.94	1	14	4	96	0.00	0.0	1.074	0.040	14	4	2	2
PL.69917	PL.69656	ABC	336 MCM AC	7.42Y	123.7	0.10	1.31	138.22	27	2944	906	96	1.56	0.1	1.127	0.097	1	0	1	589
PL.70302	PL.69917	B	6 A (CWC)	7.42Y	123.7	0.00	1.31	6.34	5	45	12	97	0.00	0.0	1.132	0.005	0	0	0	10
PD.10477	PL.70302	B	20T	7.42Y	123.7	0.00	1.31	6.34	0	45	12	97	0.00	0.0	1.132	0.005	0	0	0	10
PL.70303	PD.10477	B	6 A (CWC)	7.42Y	123.7	0.01	1.32	6.34	5	45	12	97	0.00	0.0	1.178	0.046	0	0	0	10
PL.70119	PL.70303	B	#4 ACSR	7.42Y	123.7	0.03	1.35	5.33	4	38	10	97	0.01	0.0	1.311	0.133	14	4	2	8
PL.70120	PL.70119	B	#4 ACSR	7.42Y	123.6	0.01	1.36	3.43	3	25	7	96	0.00	0.0	1.366	0.055	13	3	2	6
PL.69676	PL.70120	B	#4 ACSR	7.42Y	123.6	0.00	1.36	1.69	1	12	3	97	0.00	0.0	1.397	0.031	6	2	1	4
PL.69677	PL.69676	B	#1/0 ACSR	7.42Y	123.6	0.00	1.36	0.86	0	6	2	95	0.00	0.0	1.424	0.027	6	2	1	1
PL.69678	PL.69676	B	#1/0 ACSR	7.42Y	123.6	0.00	1.36	0.00	0	0	0	100	0.00	0.0	1.440	0.043	0	0	2	2
PL.69918	PL.70303	B	6 A (CWC)	7.42Y	123.7	0.00	1.32	1.01	1	7	2	96	0.00	0.0	1.226	0.048	7	2	2	2
PL.69675	PL.69917	ABC	336 MCM AC	7.42Y	123.6	0.06	1.37	136.08	26	2896	890	96	0.86	0.0	1.183	0.055	0	0	0	578
PL.70298	PL.69675	A	#4 ACSR	7.42Y	123.6	0.00	1.37	0.82	1	6	2	95	0.00	0.0	1.187	0.005	0	0	0	1
PD.10475	PL.70298	A	65T	7.42Y	123.6	0.00	1.37	0.82	0	6	2	95	0.00	0.0	1.187	0.005	0	0	0	1
PL.70299	PD.10475	A	#4 ACSR	7.42Y	123.6	0.00	1.37	0.82	1	6	2	95	0.00	0.0	1.240	0.053	6	2	1	1
PL.69679	PL.69675	ABC	336 MCM AC	7.41Y	123.6	0.08	1.45	135.81	26	2889	887	96	1.18	0.0	1.259	0.076	0	0	0	577
PL.70300	PL.69679	A	#4 ACSR	7.41Y	123.6	0.00	1.45	2.34	2	17	4	97	0.00	0.0	1.263	0.005	0	0	0	2
PD.10476	PL.70300	A	40T	7.41Y	123.6	0.00	1.45	2.34	0	17	4	97	0.00	0.0	1.263	0.005	0	0	0	2
PL.70301	PD.10476	A	#4 ACSR	7.41Y	123.5	0.01	1.45	2.34	2	17	4	97	0.00	0.0	1.346	0.082	7	2	1	2
PL.69680	PL.70301	A	#1/0 ACSR	7.41Y	123.5	0.00	1.45	1.31	1	9	2	98	0.00	0.0	1.429	0.084	9	2	1	1
PL.70121	PL.69679	ABC	336 MCM AC	7.41Y	123.5	0.03	1.48	135.03	26	2871	879	96	0.50	0.0	1.291	0.032	0	0	0	575

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Balanced Voltage Drop Report
Source: Tyner

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.70122	PL.70121	ABC	336 MCM AC	7.41Y	123.4	0.10	1.58	135.03	26	2871	878	96	1.49	0.1	1.388	0.097	0	0	0	575
PL.70304	PL.70122	A	#4 ACSR	7.41Y	123.4	0.00	1.58	0.21	0	1	0	100	0.00	0.0	1.393	0.005	0	0	0	1
PD.10478	PL.70304	A	65T	7.41Y	123.4	0.00	1.58	0.21	0	1	0	100	0.00	0.0	1.393	0.005	0	0	0	1
PL.70305	PD.10478	A	#4 ACSR	7.41Y	123.4	0.00	1.58	0.21	0	1	0	100	0.00	0.0	1.426	0.033	1	0	1	1
PL.69919	PL.70122	ABC	336 MCM AC	7.40Y	123.3	0.08	1.66	134.96	26	2868	874	96	1.17	0.0	1.464	0.076	0	0	0	574
PL.70306	PL.69919	A	#1/0 ACSR	7.40Y	123.3	0.00	1.66	2.86	1	20	5	97	0.00	0.0	1.469	0.005	0	0	0	2
PD.10479	PL.70306	A	65T	7.40Y	123.3	0.00	1.66	2.86	0	20	5	97	0.00	0.0	1.469	0.005	0	0	0	2
PL.70307	PD.10479	A	#1/0 ACSR	7.40Y	123.3	0.00	1.66	2.86	1	20	5	97	0.00	0.0	1.483	0.014	9	2	1	2
PL.70130	PL.70307	A	#1/0 ACSR	7.40Y	123.3	0.00	1.66	1.56	1	11	3	96	0.00	0.0	1.531	0.048	11	3	1	1
PL.69920	PL.69919	ABC	336 MCM AC	7.40Y	123.3	0.08	1.74	134.00	26	2846	866	96	1.18	0.0	1.543	0.078	6	2	4	572
PL.70308	PL.69920	A	#2 ACSR	7.40Y	123.3	0.00	1.74	1.00	1	7	2	96	0.00	0.0	1.547	0.005	0	0	0	2
PD.10480	PL.70308	A	65T	7.40Y	123.3	0.00	1.74	1.00	0	7	2	96	0.00	0.0	1.547	0.005	0	0	0	2
PL.70309	PD.10480	A	#2 ACSR	7.40Y	123.3	0.00	1.74	1.00	1	7	2	96	0.00	0.0	1.555	0.008	0	0	0	2
PL.69921	PL.70309	A	#2 ACSR	7.40Y	123.3	0.00	1.74	1.00	1	7	2	96	0.00	0.0	1.597	0.042	7	2	1	1
PL.69681	PL.70309	A	#1/0 ACSR	7.40Y	123.3	0.00	1.74	0.00	0	0	0	100	0.00	0.0	1.615	0.060	0	0	1	1
PL.70131	PL.69920	ABC	336 MCM AC	7.39Y	123.2	0.10	1.84	133.39	26	2832	860	96	1.42	0.1	1.638	0.095	1	0	1	566
PL.70132	PL.70131	ABC	336 MCM AC	7.39Y	123.1	0.06	1.90	133.32	26	2829	856	96	0.91	0.0	1.699	0.061	0	0	0	565
PL.69922	PL.70132	ABC	336 MCM AC	7.38Y	122.9	0.16	2.05	132.57	26	2812	850	96	2.28	0.1	1.852	0.154	0	0	0	562
PL.70003	PL.69922	ABC	336 MCM AC	7.37Y	122.9	0.07	2.13	132.57	26	2810	844	96	1.08	0.0	1.926	0.073	0	0	0	562
PL.70312	PL.70003	A	6 A (CWC)	7.37Y	122.9	0.00	2.13	0.91	1	7	2	96	0.00	0.0	1.930	0.005	0	0	0	2
PD.10482	PL.70312	A	65T	7.37Y	122.9	0.00	2.13	0.91	0	7	2	96	0.00	0.0	1.930	0.005	0	0	0	2
PL.70313	PD.10482	A	6 A (CWC)	7.37Y	122.9	0.00	2.13	0.91	1	7	2	96	0.00	0.0	1.996	0.066	7	2	2	2
PL.70133	PL.70003	ABC	336 MCM AC	7.37Y	122.8	0.02	2.15	132.26	25	2802	840	96	0.34	0.0	1.949	0.023	8	2	1	560
PL.70134	PL.70133	ABC	336 MCM AC	7.36Y	122.7	0.12	2.27	131.89	25	2794	837	96	1.78	0.1	2.070	0.121	2	0	1	559
PL.70410	PL.70134	A	#4 ACSR	7.36Y	122.7	0.00	2.27	4.21	3	30	8	97	0.00	0.0	2.074	0.004	0	0	0	4
PD.10533	PL.70410	A	65T	7.36Y	122.7	0.00	2.27	4.21	0	30	8	97	0.00	0.0	2.074	0.004	0	0	0	4
PL.70411	PD.10533	A	#4 ACSR	7.36Y	122.7	0.01	2.28	4.21	3	30	8	97	0.00	0.0	2.118	0.044	7	2	2	4
PL.70135	PL.70411	A	#4 ACSR	7.36Y	122.7	0.01	2.29	3.23	2	23	6	97	0.00	0.0	2.202	0.084	0	0	0	2
PL.70147	PL.70135	A	#4 ACSR	7.36Y	122.7	0.01	2.31	3.23	2	23	6	97	0.00	0.0	2.328	0.126	12	3	1	2
PL.70148	PL.70147	A	#4 ACSR	7.36Y	122.7	0.01	2.31	1.56	1	11	3	96	0.00	0.0	2.505	0.177	11	3	1	1
PL.69923	PL.70134	ABC	336 MCM AC	7.36Y	122.7	0.06	2.33	130.40	25	2760	825	96	0.86	0.0	2.130	0.060	0	0	0	554

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Balanced Voltage Drop Report
Source: Tyner

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.70136	PL.69923	ABC	336 MCM AC	7.36Y	122.6	0.05	2.38	130.40	25	2759	823	96	0.75	0.0	2.183	0.053	24	6	4	554
PL.70137	PL.70136	ABC	336 MCM AC	7.35Y	122.5	0.08	2.47	129.26	25	2734	814	96	1.16	0.0	2.265	0.082	7	2	2	550
PL.70316	PL.70137	A	#4 ACSR	7.35Y	122.5	0.00	2.47	1.68	1	12	3	97	0.00	0.0	2.270	0.005	0	0	0	2
PD.10484	PL.70316	A	65T	7.35Y	122.5	0.00	2.47	1.68	0	12	3	97	0.00	0.0	2.270	0.005	0	0	0	2
PL.70317	PD.10484	A	#4 ACSR	7.35Y	122.5	0.00	2.47	1.68	1	12	3	97	0.00	0.0	2.313	0.043	12	3	2	2
PL.70145	PL.70137	ABC	336 MCM AC	7.35Y	122.5	0.05	2.52	128.37	25	2714	807	96	0.71	0.0	2.317	0.052	21	6	4	546
PL.70146	PL.70145	ABC	336 MCM AC	7.34Y	122.4	0.07	2.59	127.39	25	2692	800	96	1.04	0.0	2.393	0.076	0	0	0	542
PL.69686	PL.70146	ABC	336 MCM AC	7.34Y	122.4	0.01	2.60	113.16	22	2388	716	96	0.09	0.0	2.402	0.008	0	0	0	489
PL.70141	PL.69686	ABC	336 MCM AC	7.34Y	122.3	0.11	2.70	112.89	22	2382	714	96	1.31	0.1	2.524	0.123	15	4	1	488
PL.70142	PL.70141	ABC	336 MCM AC	7.34Y	122.3	0.03	2.74	112.20	22	2366	707	96	0.43	0.0	2.565	0.041	0	0	1	487
PL.70370	PL.70142	C	#1/0 ACSR	7.34Y	122.3	0.00	2.74	2.27	1	16	4	97	0.00	0.0	2.570	0.005	0	0	0	2
PD.10511	PL.70370	C	25T	7.34Y	122.3	0.00	2.74	2.27	0	16	4	97	0.00	0.0	2.570	0.005	0	0	0	2
PL.70371	PD.10511	C	#1/0 ACSR	7.34Y	122.3	0.00	2.74	2.27	1	16	4	97	0.00	0.0	2.625	0.055	0	0	0	2
PL.70139	PL.70371	C	#1/0 ACSR	7.34Y	122.3	0.00	2.74	2.27	1	16	4	97	0.00	0.0	2.660	0.035	9	2	1	2
PL.70140	PL.70139	C	#1/0 ACSR	7.34Y	122.3	0.00	2.74	0.99	0	7	2	96	0.00	0.0	2.725	0.065	7	2	1	1
PL.69925	PL.70142	ABC	336 MCM AC	7.33Y	122.2	0.09	2.83	111.44	21	2350	702	96	1.12	0.0	2.672	0.107	0	0	0	484
PL.70004	PL.69925	ABC	336 MCM AC	7.32Y	122.0	0.15	2.98	111.44	21	2349	700	96	1.83	0.1	2.847	0.175	0	0	0	484
PL.70314	PL.70004	A	#1/0 ACSR	7.32Y	122.0	0.00	2.98	1.82	1	13	3	97	0.00	0.0	2.852	0.005	0	0	0	2
PD.10483	PL.70314	A	20T	7.32Y	122.0	0.00	2.98	1.82	0	13	3	97	0.00	0.0	2.852	0.005	0	0	0	2
PL.70315	PD.10483	A	#1/0 ACSR	7.32Y	122.0	0.00	2.98	1.82	1	13	3	97	0.00	0.0	2.879	0.027	6	1	1	2
PL.69710	PL.70315	A	#1/0 ACSR	7.32Y	122.0	0.00	2.98	0.00	0	0	0	100	0.00	0.0	2.926	0.047	0	0	0	0
PL.69933	PL.70315	A	#1/0 ACSR	7.32Y	122.0	0.00	2.98	1.02	0	7	2	96	0.00	0.0	2.897	0.019	7	2	1	1
PL.69711	PL.70004	ABC	336 MCM AC	7.32Y	122.0	0.06	3.03	110.84	21	2334	692	96	0.70	0.0	2.915	0.067	0	0	0	482
PL.69712	PL.69711	C	#1/0 ACSR	7.32Y	122.0	0.00	3.03	3.17	1	22	6	96	0.00	0.0	2.919	0.005	0	0	0	4
PD.10512	PL.69712	C	25T	7.32Y	122.0	0.00	3.03	3.17	0	22	6	96	0.00	0.0	2.919	0.005	0	0	0	4
PL.69713	PD.10512	C	#1/0 ACSR	7.32Y	122.0	0.00	3.03	2.77	1	20	5	97	0.00	0.0	2.947	0.027	10	3	2	3
PL.69717	PL.69713	C	#1/0 ACSR	7.32Y	122.0	0.00	3.03	1.39	1	10	3	96	0.00	0.0	2.994	0.048	10	3	1	1
PL.69935	PD.10512	C	#1/0 ACSR	7.32Y	122.0	0.00	3.03	0.40	0	3	1	95	0.00	0.0	2.936	0.017	3	1	1	1
PL.70332	PL.69711	A	#1/0 ACSR	7.32Y	122.0	0.00	3.03	3.85	2	27	7	97	0.00	0.0	2.919	0.005	0	0	0	8
PD.10491	PL.70332	A	25T	7.32Y	122.0	0.00	3.03	3.85	0	27	7	97	0.00	0.0	2.919	0.005	0	0	0	8
PL.70333	PD.10491	A	#1/0 ACSR	7.32Y	122.0	0.00	3.03	3.85	2	27	7	97	0.00	0.0	2.939	0.019	7	2	4	8

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: Tyner

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.69714	PL.70333	A	#4 ACSR	7.32Y	122.0	0.01	3.04	2.84	2	20	5	97	0.00	0.0	3.005	0.066	0	0	0	4
PL.69716	PL.69714	A	#4 ACSR	7.32Y	122.0	0.00	3.05	1.52	1	11	3	96	0.00	0.0	3.087	0.083	4	1	1	3
PL.69719	PL.69716	A	#1/0 ACSR	7.32Y	122.0	0.00	3.05	0.93	0	7	2	96	0.00	0.0	3.186	0.099	7	2	1	1
PL.69718	PL.69716	A	#4 ACSR	7.32Y	122.0	0.00	3.05	0.00	0	0	0	100	0.00	0.0	3.191	0.104	0	0	1	1
PL.69715	PL.69714	A	#1/0 ACSR	7.32Y	122.0	0.00	3.04	1.32	1	9	2	98	0.00	0.0	3.071	0.066	9	2	1	1
PL.69934	PL.69711	ABC	336 MCM AC	7.31Y	121.9	0.08	3.11	108.50	21	2284	677	96	0.99	0.0	3.014	0.100	6	2	1	470
PL.70330	PL.69934	C	#1/0 ACSR	7.31Y	121.9	0.00	3.11	3.08	1	22	6	96	0.00	0.0	3.019	0.005	0	0	0	5
PD.10490	PL.70330	C	25T	7.31Y	121.9	0.00	3.11	3.08	0	22	6	96	0.00	0.0	3.019	0.005	0	0	0	5
PL.70331	PD.10490	C	#1/0 ACSR	7.31Y	121.9	0.00	3.12	3.08	1	22	6	96	0.00	0.0	3.047	0.028	3	1	2	5
PL.69299	PL.70331	C	#1/0 ACSR	7.31Y	121.9	0.00	3.12	2.65	1	19	5	97	0.00	0.0	3.083	0.036	12	3	2	3
PL.69300	PL.69299	C	#1/0 ACSR	7.31Y	121.9	0.00	3.12	0.99	0	7	2	96	0.00	0.0	3.119	0.036	7	2	1	1
PL.69936	PL.69934	ABC	336 MCM AC	7.31Y	121.9	0.03	3.14	107.20	21	2255	668	96	0.35	0.0	3.050	0.036	0	0	0	464
PL.69720	PL.69936	ABC	336 MCM AC	7.31Y	121.8	0.07	3.22	107.20	21	2255	667	96	0.88	0.0	3.141	0.091	4	1	1	464
PL.69937	PL.69720	ABC	336 MCM AC	7.30Y	121.7	0.05	3.27	103.36	20	2173	643	96	0.58	0.0	3.205	0.064	0	0	0	447
PL.69289	PL.69937	ABC	336 MCM AC	7.30Y	121.7	0.02	3.29	103.36	20	2172	642	96	0.28	0.0	3.236	0.031	6	2	4	447
PL.69290	PL.69289	ABC	336 MCM AC	7.30Y	121.7	0.05	3.34	103.09	20	2166	640	96	0.56	0.0	3.299	0.063	4	1	3	443
PL.69288	PL.69290	ABC	336 MCM AC	7.30Y	121.6	0.03	3.37	102.92	20	2162	637	96	0.35	0.0	3.338	0.039	0	0	0	440
PL.69939	PL.69288	ABC	336 MCM AC	7.30Y	121.6	0.03	3.40	102.92	20	2162	637	96	0.37	0.0	3.380	0.041	10	3	2	437
PL.69940	PL.69939	ABC	336 MCM AC	7.29Y	121.5	0.10	3.51	102.43	20	2151	633	96	1.16	0.1	3.511	0.132	0	0	0	435
PL.70005	PL.69940	ABC	336 MCM AC	7.29Y	121.4	0.05	3.55	102.43	20	2150	630	96	0.55	0.0	3.574	0.062	0	0	0	435
PL.70374	PL.70005	C	#1/0 ACSR	7.29Y	121.4	0.00	3.56	28.41	12	200	54	97	0.00	0.0	3.578	0.005	0	0	0	48
PD.10514	PL.70374	C	65T	7.29Y	121.4	0.00	3.56	28.41	0	200	54	97	0.00	0.0	3.578	0.005	0	0	0	48
PL.70375	PD.10514	C	#1/0 ACSR	7.28Y	121.3	0.10	3.66	28.41	12	200	54	97	0.13	0.1	3.731	0.153	0	0	0	48
PL.70006	PL.70375	C	#1/0 ACSR	7.28Y	121.3	0.07	3.73	28.41	12	200	53	97	0.10	0.0	3.841	0.110	0	0	0	48
PL.69723	PL.70006	C	#1/0 ACSR	7.27Y	121.2	0.11	3.84	28.41	12	200	53	97	0.14	0.1	4.005	0.164	3	1	1	48
PL.69724	PL.69723	C	#1/0 ACSR	7.27Y	121.1	0.05	3.89	28.04	12	197	52	97	0.07	0.0	4.085	0.080	0	0	0	47
PL.69942	PL.69724	C	#1/0 ACSR	7.26Y	121.1	0.06	3.95	26.60	12	187	50	97	0.07	0.0	4.184	0.098	5	1	2	45
PL.70128	PL.69942	C	#4 ACSR	7.26Y	120.9	0.11	4.05	25.95	20	182	48	97	0.15	0.1	4.277	0.093	4	1	1	43
PL.70129	PL.70128	C	#4 ACSR	7.25Y	120.9	0.07	4.12	25.35	20	178	47	97	0.10	0.1	4.341	0.065	9	3	3	42
PL.70127	PL.70129	C	#4 ACSR	7.25Y	120.9	0.02	4.14	24.00	18	168	45	97	0.03	0.0	4.360	0.019	0	0	0	39
PL.69728	PL.70127	C	#4 ACSR	7.25Y	120.9	0.01	4.15	1.63	1	11	3	96	0.00	0.0	4.453	0.093	4	1	1	3

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Balanced Voltage Drop Report
Source: Tyner

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.69729	PL.69728	C	#1/0 ACSR	7.25Y	120.8	0.00	4.15	1.00	0	7	2	96	0.00	0.0	4.495	0.041	7	2	2	2
PL.69727	PL.70127	C	#1/0 ACSR	7.25Y	120.8	0.02	4.16	22.37	10	157	42	97	0.02	0.0	4.391	0.031	0	0	0	36
PL.69730	PL.69727	C	#4 ACSR	7.25Y	120.8	0.09	4.25	22.37	17	157	42	97	0.10	0.1	4.480	0.089	9	2	1	36
PL.68581	PL.69730	C	#4 ACSR	7.24Y	120.7	0.08	4.32	21.11	16	148	39	97	0.09	0.1	4.565	0.085	7	2	2	35
PL.68582	PL.68581	C	#4 ACSR	7.24Y	120.6	0.05	4.37	20.12	15	141	37	97	0.05	0.0	4.625	0.060	19	5	3	33
PL.68583	PL.68582	C	#4 ACSR	7.24Y	120.6	0.00	4.37	0.07	0	0	0	100	0.00	0.0	4.649	0.024	0	0	2	2
PL.68584	PL.68583	C	#4 ACSR	7.24Y	120.6	0.00	4.37	0.00	0	0	0	100	0.00	0.0	4.735	0.086	0	0	0	0
PL.69731	PL.68582	C	#4 ACSR	7.23Y	120.5	0.08	4.45	17.33	13	121	32	97	0.07	0.1	4.725	0.101	0	0	0	28
PL.69733	PL.69731	C	#4 ACSR	7.23Y	120.5	0.05	4.51	10.74	8	75	20	97	0.03	0.0	4.847	0.122	8	2	1	14
PL.69734	PL.69733	C	#4 ACSR	7.23Y	120.5	0.02	4.53	4.52	3	32	8	97	0.00	0.0	4.972	0.125	10	3	3	7
PL.69735	PL.69734	C	#4 ACSR	7.23Y	120.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	5.039	0.068	0	0	0	0
PL.68572	PL.69734	C	#2 ACSR	7.23Y	120.5	0.01	4.53	3.13	2	22	6	96	0.00	0.0	5.038	0.067	5	1	1	4
PL.68573	PL.68572	C	#2 ACSR	7.23Y	120.5	0.00	4.53	2.40	1	17	4	97	0.00	0.0	5.064	0.026	9	2	1	3
PL.68574	PL.68573	C	#2 ACSR	7.23Y	120.5	0.00	4.53	1.10	1	8	2	97	0.00	0.0	5.089	0.025	8	2	2	2
PL.70125	PL.69733	C	#4 ACSR	7.23Y	120.5	0.00	4.51	3.15	2	22	6	96	0.00	0.0	4.880	0.033	15	4	2	3
PL.70126	PL.70125	C	#4 ACSR	7.23Y	120.5	0.00	4.51	0.96	1	7	2	96	0.00	0.0	4.962	0.082	7	2	1	1
PL.69732	PL.69733	C	#4 ACSR	7.23Y	120.5	0.00	4.51	1.89	1	13	3	97	0.00	0.0	4.899	0.052	13	3	3	3
PL.69736	PL.69731	C	#4 ACSR	7.23Y	120.5	0.00	4.45	0.00	0	0	0	100	0.00	0.0	4.778	0.053	0	0	0	0
PL.68568	PL.69731	C	#4 ACSR	7.23Y	120.5	0.03	4.48	6.60	5	46	12	97	0.01	0.0	4.838	0.112	9	3	1	14
PL.68569	PL.68568	C	#4 ACSR	7.23Y	120.5	0.02	4.50	5.24	4	37	10	97	0.00	0.0	4.905	0.067	3	1	1	13
PL.68570	PL.68569	C	6 A (CWC)	7.23Y	120.5	0.00	4.50	0.04	0	0	0	100	0.00	0.0	4.951	0.046	0	0	1	1
PL.68571	PL.68570	C	6 A (CWC)	7.23Y	120.5	0.00	4.50	0.00	0	0	0	100	0.00	0.0	4.989	0.038	0	0	0	0
PL.69737	PL.68569	C	6 A (CWC)	7.23Y	120.5	0.04	4.54	4.79	3	34	9	97	0.01	0.0	5.088	0.183	0	0	0	11
PL.68566	PL.69737	C	6 A (CWC)	7.23Y	120.5	0.01	4.54	2.95	2	21	5	97	0.00	0.0	5.155	0.068	13	3	2	6
PL.68567	PL.68566	C	6 A (CWC)	7.23Y	120.5	0.01	4.55	1.14	1	8	2	97	0.00	0.0	5.271	0.115	0	0	0	4
PL.69741	PL.68567	C	6 A (CWC)	7.23Y	120.4	0.01	4.55	0.97	1	7	2	96	0.00	0.0	5.395	0.124	0	0	0	3
PL.69743	PL.69741	C	6 A (CWC)	7.23Y	120.4	0.00	4.55	0.97	1	7	2	96	0.00	0.0	5.454	0.059	7	2	1	1
PL.70258	PL.69741	C	#1/0 ACSR	7.23Y	120.4	0.00	4.55	0.00	0	0	0	100	0.00	0.0	5.400	0.005	0	0	0	2
PD.10453	PL.70258	C	10T	7.23Y	120.4	0.00	4.55	0.00	0	0	0	100	0.00	0.0	5.400	0.005	0	0	0	2
PL.70259	PD.10453	C	#1/0 ACSR	7.23Y	120.4	0.00	4.55	0.00	0	0	0	100	0.00	0.0	5.498	0.098	0	0	1	2
PL.68565	PL.70259	C	#1/0 ACSR	7.23Y	120.4	0.00	4.55	0.00	0	0	0	100	0.00	0.0	5.630	0.132	0	0	1	1

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Balanced Voltage Drop Report
Source: Tyner

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.69742	PL.68567	C	#1/0 ACSR	7.23Y	120.5	0.00	4.55	0.17	0	1	0	100	0.00	0.0	5.399	0.129	1	0	1	1
PL.69943	PL.69737	C	6 A (CWC)	7.23Y	120.5	0.00	4.54	1.84	1	13	3	97	0.00	0.0	5.154	0.067	4	1	1	5
PL.69739	PL.69943	C	6 A (CWC)	7.23Y	120.5	0.00	4.54	0.82	1	6	2	95	0.00	0.0	5.216	0.062	6	2	1	1
PL.69740	PL.69943	C	#2 ACSR	7.23Y	120.5	0.00	4.54	0.38	0	3	1	95	0.00	0.0	5.196	0.042	3	1	2	3
PL.69738	PL.69740	C	#2 ACSR	7.23Y	120.5	0.00	4.54	0.00	0	0	0	100	0.00	0.0	5.234	0.037	0	0	1	1
PL.69725	PL.69724	C	#4 ACSR	7.27Y	121.1	0.00	3.89	1.44	1	10	3	96	0.00	0.0	4.113	0.027	4	1	1	2
PL.69726	PL.69725	C	#1/0 ACSR	7.27Y	121.1	0.00	3.89	0.88	0	6	2	95	0.00	0.0	4.151	0.039	6	2	1	1
PL.69941	PL.70005	ABC	336 MCM AC	7.29Y	121.4	0.03	3.58	92.96	18	1949	575	96	0.26	0.0	3.609	0.036	0	0	0	387
PL.70328	PL.69941	A	6 A (CWC)	7.29Y	121.4	0.00	3.58	0.58	0	4	1	97	0.00	0.0	3.614	0.005	0	0	0	1
PD.10489	PL.70328	A	65T	7.29Y	121.4	0.00	3.58	0.58	0	4	1	97	0.00	0.0	3.614	0.005	0	0	0	1
PL.70329	PD.10489	A	6 A (CWC)	7.28Y	121.4	0.00	3.58	0.58	0	4	1	97	0.00	0.0	3.779	0.165	0	0	0	1
PL.70007	PL.70329	A	6 A (CWC)	7.28Y	121.4	0.00	3.59	0.58	0	4	1	97	0.00	0.0	3.918	0.139	0	0	0	1
PL.69946	PL.70007	A	6 A (CWC)	7.28Y	121.4	0.00	3.59	0.00	0	0	0	100	0.00	0.0	3.955	0.037	0	0	0	0
PL.69744	PL.70007	A	#1/0 ACSR	7.28Y	121.4	0.00	3.59	0.58	0	4	1	97	0.00	0.0	4.081	0.163	4	1	1	1
PL.69947	PL.69941	ABC	336 MCM AC	7.28Y	121.4	0.04	3.62	92.77	18	1945	574	96	0.42	0.0	3.667	0.057	3	1	1	386
PL.70320	PL.69947	ABC	336 MCM AC	7.28Y	121.4	0.00	3.62	92.09	18	1930	569	96	0.03	0.0	3.671	0.004	0	0	0	384
PL.70321	PL.70320	ABC	336 MCM AC	7.28Y	121.3	0.07	3.70	92.09	18	1930	569	96	0.77	0.0	3.778	0.107	0	0	0	384
PL.69948	PL.70321	ABC	336 MCM AC	7.27Y	121.2	0.09	3.78	91.55	18	1918	564	96	0.88	0.0	3.903	0.125	0	0	0	382
PL.70008	PL.69948	ABC	336 MCM AC	7.27Y	121.1	0.07	3.85	91.55	18	1917	562	96	0.69	0.0	4.001	0.098	0	0	0	382
PL.70009	PL.70008	ABC	336 MCM AC	7.27Y	121.1	0.03	3.89	91.55	18	1916	560	96	0.35	0.0	4.050	0.049	0	0	0	382
PL.69745	PL.70009	ABC	336 MCM AC	7.27Y	121.1	0.00	3.89	91.55	18	1916	559	96	0.01	0.0	4.051	0.001	0	0	0	382
RG.65	PL.69745	ABC	114.3 KVA	7.45Y	124.2	-3.11	0.78	91.55	61	1916	559	96	percent Boost= 2.50 Tap= 4.0							382
PL.69949	RG.65	ABC	336 MCM AC	7.45Y	124.2	0.00	0.78	89.26	17	1916	559	96	0.01	0.0	4.053	0.001	0	0	0	382
PL.69746	PL.69949	ABC	336 MCM AC	7.45Y	124.1	0.08	0.86	89.26	17	1916	559	96	0.82	0.0	4.175	0.122	0	0	0	382
PL.70010	PL.69746	ABC	336 MCM AC	7.44Y	124.1	0.08	0.94	89.26	17	1915	557	96	0.76	0.0	4.288	0.113	0	0	0	382
PL.70436	PL.70010	ABC	336 MCM AC	7.44Y	124.0	0.06	1.00	89.26	17	1914	556	96	0.59	0.0	4.376	0.088	0	0	0	382
PD.10549	PL.70436	ABC	140L	7.44Y	124.0	0.00	1.00	89.26	64	1914	554	96	0.00	0.0	4.376	0.088	0	0	0	382
PL.70437	PD.10549	ABC	336 MCM AC	7.44Y	124.0	0.03	1.03	89.26	17	1914	554	96	0.27	0.0	4.417	0.041	0	0	1	382
PL.70217	PL.70437	ABC	336 MCM AC	7.44Y	123.9	0.04	1.07	89.26	17	1913	554	96	0.39	0.0	4.476	0.059	1	0	1	381
PL.70086	PL.70217	ABC	336 MCM AC	7.43Y	123.9	0.04	1.10	89.22	17	1912	553	96	0.37	0.0	4.531	0.055	0	0	0	380
PL.69747	PL.70086	ABC	336 MCM AC	7.43Y	123.8	0.05	1.15	89.22	17	1912	552	96	0.48	0.0	4.602	0.071	0	0	0	380

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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.69950	PL.69747	ABC	336 MCM AC	7.43Y	123.8	0.01	1.17	55.52	11	1194	327	96	0.08	0.0	4.635	0.033	7	2	2	243
PL.69951	PL.69950	ABC	336 MCM AC	7.43Y	123.8	0.05	1.21	54.82	11	1179	322	96	0.30	0.0	4.754	0.119	7	2	1	240
PL.70053	PL.69951	ABC	336 MCM AC	7.42Y	123.7	0.04	1.26	54.49	10	1171	320	96	0.27	0.0	4.861	0.106	0	0	0	239
PL.70054	PL.70053	ABC	336 MCM AC	7.42Y	123.7	0.00	1.26	54.49	10	1171	319	96	0.01	0.0	4.865	0.004	0	0	0	239
PL.70089	PL.70054	ABC	336 MCM AC	7.42Y	123.7	0.03	1.28	54.07	10	1162	317	96	0.17	0.0	4.932	0.067	0	0	0	236
PL.70090	PL.70089	ABC	336 MCM AC	7.42Y	123.7	0.04	1.32	54.07	10	1162	316	96	0.24	0.0	5.029	0.097	4	1	1	236
PL.69811	PL.70090	ABC	336 MCM AC	7.42Y	123.7	0.02	1.34	53.90	10	1158	315	96	0.12	0.0	5.077	0.048	0	0	0	235
PL.69814	PL.69811	ABC	336 MCM AC	7.42Y	123.6	0.02	1.36	53.90	10	1158	315	96	0.12	0.0	5.127	0.050	0	0	0	235
PL.69815	PL.69814	ABC	336 MCM AC	7.42Y	123.6	0.01	1.38	53.90	10	1158	314	97	0.09	0.0	5.163	0.036	0	0	0	235
PL.70442	PL.69815	ABC	336 MCM AC	7.42Y	123.6	0.00	1.38	53.90	10	1158	314	97	0.01	0.0	5.167	0.004	0	0	0	235
PL.70443	PL.70442	ABC	336 MCM AC	7.41Y	123.6	0.04	1.42	53.90	10	1158	314	97	0.27	0.0	5.276	0.109	0	0	0	235
PL.69967	PL.70443	ABC	336 MCM AC	7.41Y	123.5	0.03	1.45	53.34	10	1145	310	97	0.19	0.0	5.355	0.079	0	0	0	234
PL.70282	PL.69967	C	#4 ACSR	7.41Y	123.5	0.00	1.45	1.08	1	8	2	97	0.00	0.0	5.359	0.004	0	0	0	1
PD.10466	PL.70282	C	30T	7.41Y	123.5	0.00	1.45	1.08	0	8	2	97	0.00	0.0	5.359	0.004	0	0	0	1
PL.70283	PD.10466	C	#4 ACSR	7.41Y	123.5	0.00	1.45	1.08	1	8	2	97	0.00	0.0	5.385	0.026	0	0	0	1
PL.69816	PL.70283	C	#2 ACSR	7.41Y	123.5	0.00	1.45	1.08	1	8	2	97	0.00	0.0	5.401	0.016	8	2	1	1
PL.69968	PL.69967	ABC	336 MCM AC	7.41Y	123.5	0.06	1.51	52.98	10	1137	308	97	0.37	0.0	5.511	0.156	2	0	1	233
PL.69817	PL.69968	ABC	336 MCM AC	7.41Y	123.5	0.02	1.53	20.66	4	444	118	97	0.04	0.0	5.635	0.124	2	0	2	95
PL.69991	PL.69817	ABC	336 MCM AC	7.41Y	123.5	0.01	1.54	20.24	4	435	116	97	0.02	0.0	5.687	0.052	0	0	0	91
PL.70095	PL.69991	ABC	336 MCM AC	7.41Y	123.5	0.01	1.55	20.24	4	435	115	97	0.02	0.0	5.732	0.045	1	0	1	91
PL.70096	PL.70095	ABC	336 MCM AC	7.41Y	123.4	0.01	1.55	20.21	4	434	115	97	0.02	0.0	5.781	0.049	4	1	3	90
PL.70280	PL.70096	C	#1/0 ACSR	7.41Y	123.4	0.00	1.55	1.28	1	9	2	98	0.00	0.0	5.785	0.004	0	0	0	1
PD.10465	PL.70280	C	30T	7.41Y	123.4	0.00	1.55	1.28	0	9	2	98	0.00	0.0	5.785	0.004	0	0	0	1
PL.70281	PD.10465	C	#1/0 ACSR	7.41Y	123.4	0.00	1.55	1.28	1	9	2	98	0.00	0.0	5.834	0.048	9	2	1	1
PL.69992	PL.70096	ABC	336 MCM AC	7.41Y	123.4	0.01	1.57	19.58	4	421	112	97	0.02	0.0	5.858	0.077	6	2	4	86
PL.69849	PL.69992	ABC	336 MCM AC	7.41Y	123.4	0.01	1.57	19.30	4	415	110	97	0.02	0.0	5.906	0.048	0	0	0	82
PL.69878	PL.69849	ABC	336 MCM AC	7.41Y	123.4	0.00	1.58	19.30	4	415	110	97	0.01	0.0	5.942	0.035	0	0	0	82
PL.70366	PL.69878	A	#4 ACSR	7.41Y	123.4	0.00	1.58	4.71	4	34	9	97	0.00	0.0	5.946	0.005	0	0	0	4
PD.10509	PL.70366	A	50T	7.41Y	123.4	0.00	1.58	4.71	0	34	9	97	0.00	0.0	5.946	0.005	0	0	0	4
PL.70367	PD.10509	A	#4 ACSR	7.40Y	123.4	0.01	1.59	4.71	4	34	9	97	0.00	0.0	6.002	0.056	8	2	2	4
PL.70418	PL.70367	A	#4 ACSR	7.40Y	123.4	0.00	1.59	3.63	3	26	7	97	0.00	0.0	6.006	0.004	0	0	0	2

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

Balanced Voltage Drop Report
Source: Tyner

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.10538	PL.70418	A	20T	7.40Y	123.4	0.00	1.59	3.63	0	26	7	97	0.00	0.0	6.006	0.004	0	0	0	2
PL.70419	PD.10538	A	#4 ACSR	7.40Y	123.4	0.01	1.60	3.63	3	26	7	97	0.00	0.0	6.065	0.060	5	1	1	2
PL.69994	PL.70419	A	#4 ACSR	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	6.085	0.020	0	0	0	0
PL.69881	PL.70419	A	#4 ACSR	7.40Y	123.4	0.01	1.61	2.92	2	21	6	96	0.00	0.0	6.168	0.102	0	0	0	1
PL.69882	PL.69881	A	#4 ACSR	7.40Y	123.4	0.00	1.61	2.92	2	21	6	96	0.00	0.0	6.233	0.065	21	6	1	1
PL.69993	PL.69878	ABC	336 MCM AC	7.41Y	123.4	0.00	1.58	17.74	3	381	101	97	0.00	0.0	5.958	0.016	5	1	1	78
PL.69879	PL.69993	ABC	336 MCM AC	7.40Y	123.4	0.01	1.59	17.51	3	376	100	97	0.01	0.0	6.007	0.050	26	7	3	77
PL.69995	PL.69879	ABC	336 MCM AC	7.40Y	123.4	0.01	1.59	16.29	3	350	93	97	0.01	0.0	6.050	0.042	9	2	3	74
PL.69996	PL.69995	ABC	336 MCM AC	7.40Y	123.4	0.00	1.59	15.85	3	340	90	97	0.00	0.0	6.067	0.017	0	0	0	71
PL.70232	PL.69996	ABC	336 MCM AC	7.40Y	123.4	0.01	1.60	15.38	3	330	88	97	0.01	0.0	6.116	0.050	13	3	3	68
PL.70233	PL.70232	ABC	336 MCM AC	7.40Y	123.4	0.00	1.60	14.79	3	318	84	97	0.01	0.0	6.162	0.046	7	2	2	65
PL.70234	PL.70233	ABC	336 MCM AC	7.40Y	123.4	0.01	1.61	14.45	3	310	82	97	0.01	0.0	6.219	0.057	2	1	3	63
PL.70235	PL.70234	ABC	336 MCM AC	7.40Y	123.4	0.00	1.61	14.35	3	308	82	97	0.01	0.0	6.263	0.043	14	4	3	60
PL.70230	PL.70235	ABC	336 MCM AC	7.40Y	123.4	0.00	1.62	11.16	2	240	64	97	0.01	0.0	6.312	0.049	0	0	0	45
PL.70231	PL.70230	ABC	336 MCM AC	7.40Y	123.4	0.00	1.62	11.16	2	240	64	97	0.00	0.0	6.338	0.026	0	0	0	45
PL.70056	PL.70231	ABC	336 MCM AC	7.40Y	123.4	0.00	1.62	10.58	2	227	60	97	0.01	0.0	6.400	0.062	24	6	3	42
PL.70057	PL.70056	ABC	336 MCM AC	7.40Y	123.4	0.00	1.63	5.49	1	118	31	97	0.00	0.0	6.510	0.110	0	0	0	18
PL.70027	PL.70057	ABC	336 MCM AC	7.40Y	123.4	0.01	1.63	5.49	1	118	31	97	0.00	0.0	6.641	0.131	0	0	0	18
PL.70362	PL.70027	A	#4 ACSR	7.40Y	123.4	0.00	1.63	1.64	1	12	3	97	0.00	0.0	6.646	0.005	0	0	0	3
PD.10507	PL.70362	A	50T	7.40Y	123.4	0.00	1.63	1.64	0	12	3	97	0.00	0.0	6.646	0.005	0	0	0	3
PL.70363	PD.10507	A	#4 ACSR	7.40Y	123.4	0.00	1.63	1.64	1	12	3	97	0.00	0.0	6.680	0.035	12	3	3	3
PL.70228	PL.70027	ABC	336 MCM AC	7.40Y	123.4	0.00	1.64	4.94	1	106	28	97	0.00	0.0	6.721	0.080	3	1	1	15
PL.70229	PL.70228	ABC	336 MCM AC	7.40Y	123.4	0.00	1.64	4.79	1	103	27	97	0.00	0.0	6.740	0.019	43	11	2	14
PL.70227	PL.70229	ABC	336 MCM AC	7.40Y	123.4	0.00	1.64	2.77	1	59	16	97	0.00	0.0	6.771	0.032	3	1	2	12
PL.70416	PL.70227	B	#2 ACSR	7.40Y	123.4	0.00	1.64	6.96	4	50	13	97	0.00	0.0	6.776	0.005	0	0	0	9
PD.10537	PL.70416	B	50T	7.40Y	123.4	0.00	1.64	6.96	0	50	13	97	0.00	0.0	6.776	0.005	0	0	0	9
PL.70417	PD.10537	B	#2 ACSR	7.40Y	123.4	0.01	1.65	6.96	4	50	13	97	0.00	0.0	6.826	0.050	0	0	0	9
PL.70000	PL.70417	B	#2 ACSR	7.40Y	123.4	0.00	1.65	0.91	1	7	2	96	0.00	0.0	6.870	0.045	7	2	1	1
PL.69902	PL.70417	B	#4 ACSR	7.40Y	123.3	0.01	1.66	6.04	5	43	11	97	0.00	0.0	6.890	0.065	23	6	3	8
PL.69903	PL.69902	B	#2 ACSR	7.40Y	123.3	0.00	1.67	2.79	2	20	5	97	0.00	0.0	6.963	0.073	12	3	3	5
PL.69904	PL.69903	B	#2 ACSR	7.40Y	123.3	0.00	1.67	1.09	1	8	2	97	0.00	0.0	7.021	0.057	8	2	2	2

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

Balanced Voltage Drop Report
Source: Tyner

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.69889	PL.70227	ABC	336 MCM AC	7.40Y	123.4	0.00	1.64	0.29	0	6	2	95	0.00	0.0	6.824	0.052	0	0	0	1
PL.70360	PL.69889	B	#4 ACSR	7.40Y	123.4	0.00	1.64	0.86	1	6	2	95	0.00	0.0	6.828	0.005	0	0	0	1
PD.10506	PL.70360	B	25T	7.40Y	123.4	0.00	1.64	0.86	0	6	2	95	0.00	0.0	6.828	0.005	0	0	0	1
PL.70361	PD.10506	B	#4 ACSR	7.40Y	123.4	0.00	1.64	0.86	1	6	2	95	0.00	0.0	6.926	0.098	6	2	1	1
PL.72527	PL.69889	ABC	336 MCM AC	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	6.843	0.019	0	0	0	0
PD.1844-B	PL.72527	ABC	Open	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	6.843	0.019	0	0	0	0
PL.70432	PL.70056	B	#4 ACSR	7.40Y	123.4	0.00	1.63	11.92	9	85	23	97	0.00	0.0	6.402	0.003	0	0	0	21
PD.10547	PL.70432	B	50L	7.40Y	123.4	0.00	1.63	11.92	24	85	23	97	0.00	0.0	6.402	0.003	0	0	0	21
PL.70433	PD.10547	B	#4 ACSR	7.40Y	123.3	0.06	1.68	11.92	9	85	23	97	0.03	0.0	6.519	0.116	15	4	2	21
PL.70226	PL.70433	B	#4 ACSR	7.40Y	123.3	0.01	1.69	9.82	8	70	19	97	0.01	0.0	6.553	0.035	19	5	3	19
PL.70224	PL.70226	B	6 A (CWC)	7.40Y	123.3	0.02	1.71	7.11	5	51	13	97	0.01	0.0	6.621	0.067	5	1	2	16
PL.70225	PL.70224	B	6 A (CWC)	7.40Y	123.3	0.03	1.74	6.35	5	45	12	97	0.01	0.0	6.707	0.087	0	0	0	14
PL.70025	PL.70225	B	6 A (CWC)	7.39Y	123.2	0.03	1.77	6.35	5	45	12	97	0.01	0.0	6.803	0.096	0	0	0	14
PL.70222	PL.70025	B	6 A (CWC)	7.39Y	123.2	0.03	1.80	6.35	5	45	12	97	0.01	0.0	6.897	0.094	0	0	0	14
PL.70223	PL.70222	B	6 A (CWC)	7.39Y	123.2	0.02	1.81	6.35	5	45	12	97	0.01	0.0	6.955	0.058	0	0	0	14
PL.69890	PL.70223	B	6 A (CWC)	7.39Y	123.1	0.04	1.86	6.35	5	45	12	97	0.02	0.0	7.110	0.155	0	0	0	14
PL.69891	PL.69890	B	6 A (CWC)	7.39Y	123.1	0.02	1.88	6.35	5	45	12	97	0.01	0.0	7.179	0.069	1	0	1	14
PL.69997	PL.69891	B	6 A (CWC)	7.39Y	123.1	0.01	1.89	5.03	4	36	10	96	0.00	0.0	7.224	0.045	0	0	0	11
PL.69894	PL.69997	B	#1/0 ACSR	7.39Y	123.1	0.00	1.89	1.58	1	11	3	96	0.00	0.0	7.282	0.058	11	3	2	2
PL.69998	PL.69997	B	6 A (CWC)	7.39Y	123.1	0.01	1.90	3.45	2	25	7	96	0.00	0.0	7.318	0.094	2	0	1	9
PL.70220	PL.69998	B	6 A (CWC)	7.39Y	123.1	0.01	1.91	3.09	2	22	6	96	0.00	0.0	7.409	0.092	3	1	1	7
PL.70221	PL.70220	B	6 A (CWC)	7.38Y	123.1	0.01	1.92	2.70	2	19	5	97	0.00	0.0	7.489	0.080	3	1	1	6
PL.70219	PL.70221	B	6 A (CWC)	7.38Y	123.1	0.01	1.93	2.33	2	17	4	97	0.00	0.0	7.543	0.053	0	0	0	5
PL.69897	PL.70219	B	#2 ACSR	7.38Y	123.1	0.00	1.93	0.25	0	2	0	100	0.00	0.0	7.611	0.068	2	0	1	1
PL.69898	PL.70219	B	6 A (CWC)	7.38Y	123.1	0.01	1.94	2.08	1	15	4	97	0.00	0.0	7.655	0.112	2	1	1	4
PL.69900	PL.69898	B	6 A (CWC)	7.38Y	123.1	0.00	1.94	0.02	0	0	0	100	0.00	0.0	7.832	0.177	0	0	1	1
PL.69899	PL.69898	B	#4 ACSR	7.38Y	123.1	0.00	1.94	1.70	1	12	3	97	0.00	0.0	7.707	0.051	12	3	2	2
PL.69999	PL.69998	B	#4 ACSR	7.39Y	123.1	0.00	1.90	0.12	0	1	0	100	0.00	0.0	7.348	0.030	0	0	0	1
PL.69895	PL.69999	B	#4 ACSR	7.39Y	123.1	0.00	1.90	0.12	0	1	0	100	0.00	0.0	7.386	0.039	1	0	1	1
PL.69896	PL.69999	B	#4 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	7.371	0.023	0	0	0	0
PL.69892	PL.69891	B	#4 ACSR	7.39Y	123.1	0.00	1.88	0.82	1	6	2	95	0.00	0.0	7.237	0.058	6	2	1	1

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

Balanced Voltage Drop Report
Source: Tyner

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.69893	PL.69891	B	#1/0 ACSR	7.39Y	123.1	0.00	1.88	0.33	0	2	1	89	0.00	0.0	7.248	0.069	2	1	1	1
PL.70364	PL.70231	C	#4 ACSR	7.40Y	123.4	0.00	1.62	1.76	1	13	3	97	0.00	0.0	6.343	0.005	0	0	0	3
PD.10508	PL.70364	C	50T	7.40Y	123.4	0.00	1.62	1.76	0	13	3	97	0.00	0.0	6.343	0.005	0	0	0	3
PL.70365	PD.10508	C	#4 ACSR	7.40Y	123.4	0.00	1.62	1.76	1	13	3	97	0.00	0.0	6.364	0.021	13	3	3	3
PL.70434	PL.70235	A	6 A (CWC)	7.40Y	123.4	0.00	1.61	7.55	5	54	14	97	0.00	0.0	6.265	0.003	0	0	0	12
PD.10548	PL.70434	A	35L	7.40Y	123.4	0.00	1.61	7.55	22	54	14	97	0.00	0.0	6.265	0.003	0	0	0	12
PL.70435	PD.10548	A	6 A (CWC)	7.40Y	123.4	0.01	1.62	7.55	5	54	14	97	0.00	0.0	6.309	0.043	28	7	4	12
PL.70094	PL.70435	A	6 A (CWC)	7.40Y	123.4	0.01	1.64	3.70	3	26	7	97	0.00	0.0	6.381	0.073	9	2	1	8
PL.70093	PL.70094	A	6 A (CWC)	7.40Y	123.4	0.01	1.65	2.45	2	18	5	96	0.00	0.0	6.493	0.111	0	0	0	7
PL.70021	PL.70093	A	6 A (CWC)	7.40Y	123.3	0.02	1.67	2.45	2	18	5	96	0.00	0.0	6.665	0.172	0	0	0	7
PL.69888	PL.70021	A	#4 ACSR	7.40Y	123.3	0.00	1.67	0.07	0	0	0	100	0.00	0.0	6.743	0.078	0	0	0	2
PL.69884	PL.69888	A	#4 ACSR	7.40Y	123.3	0.00	1.67	0.07	0	0	0	100	0.00	0.0	6.861	0.118	0	0	0	2
PL.70022	PL.69884	A	#4 ACSR	7.40Y	123.3	0.00	1.67	0.07	0	0	0	100	0.00	0.0	7.018	0.157	0	0	0	2
PL.70023	PL.70022	A	#4 ACSR	7.40Y	123.3	0.00	1.67	0.07	0	0	0	100	0.00	0.0	7.107	0.089	0	0	0	2
PL.69886	PL.70023	A	#4 ACSR	7.40Y	123.3	0.00	1.67	0.05	0	0	0	100	0.00	0.0	7.272	0.165	0	0	1	1
PL.69885	PL.70023	A	#4 ACSR	7.40Y	123.3	0.00	1.67	0.02	0	0	0	100	0.00	0.0	7.201	0.095	0	0	1	1
PL.69887	PL.70021	A	6 A (CWC)	7.40Y	123.3	0.01	1.68	2.39	2	17	5	96	0.00	0.0	6.789	0.124	0	0	0	5
PL.70091	PL.69887	A	6 A (CWC)	7.40Y	123.3	0.01	1.69	2.39	2	17	5	96	0.00	0.0	6.962	0.173	13	3	1	5
PL.70092	PL.70091	A	6 A (CWC)	7.40Y	123.3	0.00	1.70	0.61	0	4	1	97	0.00	0.0	7.088	0.126	0	0	1	4
PL.70270	PL.70092	A	6 A (CWC)	7.40Y	123.3	0.00	1.70	0.59	0	4	1	97	0.00	0.0	7.092	0.004	0	0	0	3
PD.10460	PL.70270	A	15T	7.40Y	123.3	0.00	1.70	0.59	0	4	1	97	0.00	0.0	7.092	0.004	0	0	0	3
PL.70271	PD.10460	A	6 A (CWC)	7.40Y	123.3	0.00	1.70	0.59	0	4	1	97	0.00	0.0	7.166	0.074	0	0	0	3
PL.70024	PL.70271	A	6 A (CWC)	7.40Y	123.3	0.00	1.70	0.59	0	4	1	97	0.00	0.0	7.345	0.179	0	0	0	3
PL.70080	PL.70024	A	6 A (CWC)	7.40Y	123.3	0.00	1.70	0.59	0	4	1	97	0.00	0.0	7.409	0.064	0	0	2	3
PL.70081	PL.70080	A	6 A (CWC)	7.40Y	123.3	0.00	1.71	0.59	0	4	1	97	0.00	0.0	7.447	0.037	0	0	0	1
PL.69883	PL.70081	A	#1/0 ACSR	7.40Y	123.3	0.00	1.71	0.59	0	4	1	97	0.00	0.0	7.589	0.142	4	1	1	1
PL.69880	PL.69996	B	#4 ACSR	7.40Y	123.4	0.00	1.59	1.40	1	10	3	96	0.00	0.0	6.102	0.035	10	3	3	3
PL.70276	PL.69991	A	#4 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	5.691	0.004	0	0	0	0
PD.10463	PL.70276	A	50T	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	5.691	0.004	0	0	0	0
PL.70277	PD.10463	A	#4 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	5.711	0.019	0	0	0	0
PL.70218	PL.70277	A	#4 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	5.806	0.095	0	0	0	0

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Balanced Voltage Drop Report
Source: Tyner

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.69848	PL.70218	A	#4 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	5.839	0.033	0	0	0	0
PL.70278	PL.69817	A	#1/0 ACSR	7.41Y	123.5	0.00	1.53	1.05	0	8	2	97	0.00	0.0	5.639	0.004	0	0	0	2
PD.10464	PL.70278	A	25T	7.41Y	123.5	0.00	1.53	1.05	0	8	2	97	0.00	0.0	5.639	0.004	0	0	0	2
PL.70279	PD.10464	A	#1/0 ACSR	7.41Y	123.5	0.00	1.53	1.05	0	8	2	97	0.00	0.0	5.667	0.028	8	2	2	2
PL.70440	PL.69968	ABC	#1/0 ACSR	7.41Y	123.5	0.02	1.53	32.24	14	691	189	96	0.08	0.0	5.540	0.029	0	0	0	137
PD.10551	PL.70440	ABC	50L	7.41Y	123.5	0.00	1.53	32.24	64	691	188	96	0.00	0.0	5.540	0.029	0	0	0	137
PL.70441	PD.10551	ABC	#1/0 ACSR	7.41Y	123.4	0.03	1.56	32.24	14	691	188	96	0.13	0.0	5.587	0.047	7	2	1	137
PL.69818	PL.70441	ABC	#1/0 ACSR	7.40Y	123.4	0.07	1.63	31.91	14	684	186	96	0.35	0.1	5.717	0.130	4	1	1	136
PL.69969	PL.69818	ABC	#1/0 ACSR	7.40Y	123.3	0.05	1.68	31.48	14	674	184	96	0.24	0.0	5.810	0.092	0	0	0	134
PL.70028	PL.69969	ABC	#1/0 ACSR	7.39Y	123.2	0.07	1.76	31.48	14	674	183	97	0.33	0.0	5.936	0.126	3	1	1	134
PL.69819	PL.70028	ABC	#1/0 ACSR	7.39Y	123.2	0.03	1.79	31.35	14	671	182	97	0.15	0.0	5.995	0.059	0	0	0	133
PL.70412	PL.69819	C	#1/0 ACSR	7.39Y	123.2	0.00	1.79	1.01	0	7	2	96	0.00	0.0	5.999	0.005	0	0	0	2
PD.10535	PL.70412	C	20T	7.39Y	123.2	0.00	1.79	1.01	0	7	2	96	0.00	0.0	5.999	0.005	0	0	0	2
PL.70413	PD.10535	C	#1/0 ACSR	7.39Y	123.2	0.00	1.79	1.01	0	7	2	96	0.00	0.0	6.023	0.024	7	2	2	2
PL.69970	PL.69819	ABC	#1/0 ACSR	7.39Y	123.2	0.04	1.83	31.01	13	664	180	97	0.17	0.0	6.059	0.065	0	0	0	131
PL.70334	PL.69970	A	#2 ACSR	7.39Y	123.2	0.00	1.83	1.22	1	9	2	98	0.00	0.0	6.064	0.005	0	0	0	1
PD.10493	PL.70334	A	20T	7.39Y	123.2	0.00	1.83	1.22	0	9	2	98	0.00	0.0	6.064	0.005	0	0	0	1
PL.70335	PD.10493	A	#2 ACSR	7.39Y	123.2	0.00	1.83	1.22	1	9	2	98	0.00	0.0	6.164	0.100	0	0	0	1
PL.69820	PL.70335	A	#2 ACSR	7.39Y	123.2	0.00	1.83	1.22	1	9	2	98	0.00	0.0	6.205	0.040	9	2	1	1
PL.70336	PL.69970	ABC	#1/0 ACSR	7.39Y	123.2	0.00	1.83	30.61	13	655	178	97	0.01	0.0	6.064	0.005	0	0	0	130
PL.70337	PL.70336	ABC	#1/0 ACSR	7.39Y	123.1	0.07	1.90	30.61	13	655	178	97	0.32	0.0	6.193	0.129	0	0	0	130
PL.70338	PL.70337	C	#2 ACSR	7.39Y	123.1	0.00	1.90	6.30	4	45	12	97	0.00	0.0	6.197	0.005	0	0	0	6
PD.10494	PL.70338	C	20T	7.39Y	123.1	0.00	1.90	6.30	0	45	12	97	0.00	0.0	6.197	0.005	0	0	0	6
PL.70339	PD.10494	C	#2 ACSR	7.39Y	123.1	0.00	1.90	6.30	4	45	12	97	0.00	0.0	6.221	0.023	5	1	1	6
PL.70192	PL.70339	C	#4 ACSR	7.38Y	123.1	0.03	1.93	5.64	4	40	11	96	0.01	0.0	6.345	0.124	10	3	1	5
PL.70193	PL.70192	C	#4 ACSR	7.38Y	123.1	0.01	1.94	4.30	3	31	8	97	0.00	0.0	6.407	0.061	12	3	1	4
PL.70204	PL.70193	C	#1/0 ACSR	7.38Y	123.1	0.00	1.94	1.55	1	11	3	96	0.00	0.0	6.435	0.028	0	0	1	2
PL.70205	PL.70204	C	#1/0 ACSR	7.38Y	123.1	0.00	1.94	1.55	1	11	3	96	0.00	0.0	6.592	0.157	11	3	1	1
PL.69821	PL.70193	C	#1/0 ACSR	7.38Y	123.1	0.00	1.94	1.12	0	8	2	97	0.00	0.0	6.452	0.045	8	2	1	1
PL.69971	PL.70337	ABC	#1/0 ACSR	7.38Y	123.1	0.04	1.93	28.51	12	610	166	96	0.15	0.0	6.261	0.068	0	0	0	124
PL.69822	PL.69971	ABC	#1/0 ACSR	7.38Y	123.0	0.06	1.99	28.51	12	609	165	97	0.24	0.0	6.373	0.111	3	1	1	124

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Balanced Voltage Drop Report
Source: Tyner

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.70392	PL.69822	A	#2 ACSR	7.38Y	123.0	0.00	1.99	7.68	4	55	15	96	0.00	0.0	6.377	0.005	0	0	0	19
PD.10523	PL.70392	A	40T	7.38Y	123.0	0.00	1.99	7.68	0	55	15	96	0.00	0.0	6.377	0.005	0	0	0	19
PL.70393	PD.10523	A	#2 ACSR	7.38Y	123.0	0.02	2.01	7.68	4	55	15	96	0.01	0.0	6.472	0.094	0	0	2	19
PL.70055	PL.70393	A	6 A (CWC)	7.38Y	123.0	0.03	2.04	7.68	5	55	15	96	0.01	0.0	6.547	0.075	4	1	1	17
PL.69295	PL.70055	A	6 A (CWC)	7.38Y	122.9	0.02	2.06	7.11	5	51	13	97	0.01	0.0	6.598	0.051	0	0	0	16
PL.69296	PL.69295	A	6 A (CWC)	7.38Y	122.9	0.03	2.08	7.11	5	51	13	97	0.01	0.0	6.676	0.078	0	0	0	16
PL.69825	PL.69296	A	#1/0 ACSR	7.37Y	122.9	0.00	2.08	0.92	0	7	2	96	0.00	0.0	6.786	0.110	0	0	0	2
PL.69826	PL.69825	A	#1/0 ACSR	7.37Y	122.9	0.00	2.08	0.92	0	7	2	96	0.00	0.0	6.828	0.042	7	2	1	1
PL.69291	PL.69825	A	#1/0 ACSR	7.37Y	122.9	0.00	2.08	0.00	0	0	0	100	0.00	0.0	6.850	0.065	0	0	1	1
PL.69292	PL.69291	A	#1/0 ACSR	7.37Y	122.9	0.00	2.08	0.00	0	0	0	100	0.00	0.0	6.911	0.061	0	0	0	0
PL.69293	PL.69296	A	6 A (CWC)	7.37Y	122.9	0.02	2.10	6.19	4	44	12	96	0.01	0.0	6.733	0.057	0	0	0	14
PL.69294	PL.69293	A	6 A (CWC)	7.37Y	122.9	0.02	2.12	6.19	4	44	12	96	0.01	0.0	6.811	0.079	0	0	1	14
PL.69828	PL.69294	A	#1/0 ACSR	7.37Y	122.9	0.00	2.12	0.76	0	5	1	98	0.00	0.0	6.945	0.134	5	1	1	2
PL.69827	PL.69828	A	#1/0 ACSR	7.37Y	122.9	0.00	2.12	0.04	0	0	0	100	0.00	0.0	6.976	0.030	0	0	1	1
PL.70052	PL.69294	A	6 A (CWC)	7.37Y	122.8	0.03	2.15	5.44	4	39	10	97	0.01	0.0	6.952	0.141	6	2	1	11
PL.69830	PL.70052	A	6 A (CWC)	7.37Y	122.8	0.00	2.15	4.29	3	31	8	97	0.00	0.0	6.956	0.003	0	0	0	9
PL.69297	PL.69830	A	#4 ACSR	7.37Y	122.8	0.01	2.16	4.29	3	31	8	97	0.00	0.0	6.982	0.027	0	0	0	9
PL.69298	PL.69297	A	#4 ACSR	7.37Y	122.8	0.00	2.16	4.29	3	31	8	97	0.00	0.0	7.002	0.020	7	2	1	9
PL.69831	PL.69298	A	#4 ACSR	7.37Y	122.8	0.01	2.17	3.24	2	23	6	97	0.00	0.0	7.088	0.086	8	2	1	8
PL.69972	PL.69831	A	#4 ACSR	7.37Y	122.8	0.00	2.18	2.15	2	15	4	97	0.00	0.0	7.135	0.047	0	0	1	6
PL.70182	PL.69972	A	#4 ACSR	7.37Y	122.8	0.01	2.18	2.14	2	15	4	97	0.00	0.0	7.228	0.093	8	2	1	5
PL.70183	PL.70182	A	#4 ACSR	7.37Y	122.8	0.00	2.19	0.98	1	7	2	96	0.00	0.0	7.312	0.084	0	0	0	4
PL.70180	PL.70183	A	#4 ACSR	7.37Y	122.8	0.00	2.19	0.98	1	7	2	96	0.00	0.0	7.400	0.088	3	1	2	3
PL.70181	PL.70180	A	#4 ACSR	7.37Y	122.8	0.00	2.19	0.61	0	4	1	97	0.00	0.0	7.534	0.134	0	0	0	1
PL.69833	PL.70181	A	#4 ACSR	7.37Y	122.8	0.00	2.19	0.61	0	4	1	97	0.00	0.0	7.565	0.031	4	1	1	1
PL.70188	PL.70183	A	#1/0 ACSR	7.37Y	122.8	0.00	2.19	0.00	0	0	0	100	0.00	0.0	7.388	0.076	0	0	1	1
PL.70189	PL.70188	A	#1/0 ACSR	7.37Y	122.8	0.00	2.19	0.00	0	0	0	100	0.00	0.0	7.516	0.128	0	0	0	0
PL.69832	PL.69831	A	#1/0 ACSR	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	7.140	0.051	0	0	1	1
PL.69829	PL.70052	A	#4 ACSR	7.37Y	122.8	0.00	2.15	0.30	0	2	1	89	0.00	0.0	7.125	0.173	0	0	0	1
PL.70029	PL.69829	A	#4 ACSR	7.37Y	122.8	0.00	2.16	0.30	0	2	1	89	0.00	0.0	7.217	0.092	2	1	1	1
PL.70390	PL.69822	A	#2 ACSR	7.38Y	123.0	0.00	1.99	0.95	1	7	2	96	0.00	0.0	6.377	0.005	0	0	0	1

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Balanced Voltage Drop Report
Source: Tyner

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.10522	PL.70390	A	40T	7.38Y	123.0	0.00	1.99	0.95	0	7	2	96	0.00	0.0	6.377	0.005	0	0	0	1
PL.70391	PD.10522	A	#2 ACSR	7.38Y	123.0	0.00	1.99	0.95	1	7	2	96	0.00	0.0	6.451	0.074	7	2	1	1
PL.69823	PL.69822	ABC	#1/0 ACSR	7.38Y	123.0	0.05	2.04	25.50	11	545	148	97	0.19	0.0	6.482	0.110	0	0	0	103
PL.70340	PL.69823	C	#1/0 ACSR	7.38Y	123.0	0.00	2.04	0.78	0	6	1	99	0.00	0.0	6.486	0.004	0	0	0	2
PD.10495	PL.70340	C	40T	7.38Y	123.0	0.00	2.04	0.78	0	6	1	99	0.00	0.0	6.486	0.004	0	0	0	2
PL.70341	PD.10495	C	#1/0 ACSR	7.38Y	123.0	0.00	2.04	0.78	0	6	1	99	0.00	0.0	6.496	0.009	6	1	2	2
PL.69977	PL.69823	ABC	#1/0 ACSR	7.37Y	122.9	0.04	2.09	25.24	11	539	147	96	0.17	0.0	6.581	0.099	0	0	0	101
PL.70030	PL.69977	ABC	#1/0 ACSR	7.37Y	122.8	0.07	2.15	25.24	11	539	146	97	0.25	0.0	6.730	0.149	0	0	0	101
PL.69834	PL.70030	ABC	#1/0 ACSR	7.37Y	122.8	0.07	2.23	25.24	11	539	146	97	0.27	0.0	6.888	0.158	0	0	0	101
PL.70031	PL.69834	ABC	#1/0 ACSR	7.36Y	122.7	0.03	2.26	25.24	11	538	146	97	0.11	0.0	6.955	0.067	0	0	0	101
PL.69978	PL.70031	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.27	24.44	11	521	141	97	0.06	0.0	6.992	0.037	0	0	0	98
PL.69836	PL.69978	ABC	#1/0 ACSR	7.36Y	122.7	0.04	2.32	24.44	11	521	141	97	0.16	0.0	7.091	0.099	0	0	0	98
PL.70032	PL.69836	ABC	#1/0 ACSR	7.36Y	122.6	0.05	2.37	24.44	11	521	141	97	0.19	0.0	7.210	0.119	0	0	0	98
PL.70033	PL.70032	ABC	#1/0 ACSR	7.35Y	122.6	0.05	2.42	24.44	11	521	141	97	0.18	0.0	7.325	0.115	0	0	0	98
PL.70034	PL.70033	ABC	#1/0 ACSR	7.35Y	122.5	0.03	2.45	24.44	11	521	141	97	0.12	0.0	7.402	0.077	0	0	0	98
PL.70198	PL.70034	ABC	#1/0 ACSR	7.35Y	122.5	0.02	2.47	24.44	11	521	141	97	0.06	0.0	7.440	0.038	8	2	1	98
PL.70199	PL.70198	ABC	#1/0 ACSR	7.35Y	122.5	0.02	2.49	24.06	10	512	138	97	0.06	0.0	7.479	0.039	14	4	1	97
PL.69973	PL.70199	ABC	#1/0 ACSR	7.35Y	122.5	0.00	2.49	5.96	3	127	34	97	0.00	0.0	7.523	0.044	0	0	0	28
PL.70346	PL.69973	C	#2 ACSR	7.35Y	122.5	0.00	2.49	17.89	10	127	34	97	0.00	0.0	7.527	0.005	0	0	0	28
PD.10498	PL.70346	C	40T	7.35Y	122.5	0.00	2.49	17.89	0	127	34	97	0.00	0.0	7.527	0.005	0	0	0	28
PL.70347	PD.10498	C	#2 ACSR	7.35Y	122.5	0.02	2.51	17.89	10	127	34	97	0.02	0.0	7.561	0.034	1	0	1	28
PL.69839	PL.70347	C	#2 ACSR	7.35Y	122.4	0.05	2.56	17.74	10	126	34	97	0.05	0.0	7.655	0.094	0	0	1	27
PL.70196	PL.69839	C	#1/0 ACSR	7.35Y	122.4	0.01	2.58	17.74	8	126	34	97	0.01	0.0	7.691	0.036	6	2	1	26
PL.70197	PL.70196	C	#1/0 ACSR	7.34Y	122.4	0.04	2.62	16.90	7	120	32	97	0.03	0.0	7.796	0.105	0	0	0	25
PL.70194	PL.70197	C	#1/0 ACSR	7.34Y	122.3	0.04	2.66	16.90	7	120	32	97	0.03	0.0	7.893	0.097	4	1	1	25
PL.70195	PL.70194	C	#1/0 ACSR	7.34Y	122.3	0.02	2.68	16.38	7	116	31	97	0.02	0.0	7.949	0.056	10	3	2	24
PL.70190	PL.70195	C	#1/0 ACSR	7.34Y	122.3	0.03	2.71	14.90	6	106	28	97	0.02	0.0	8.035	0.086	5	1	1	22
PL.70191	PL.70190	C	#1/0 ACSR	7.34Y	122.3	0.04	2.74	14.26	6	101	27	97	0.03	0.0	8.155	0.119	0	0	0	21
PL.70035	PL.70191	C	#1/0 ACSR	7.33Y	122.2	0.04	2.79	14.26	6	101	27	97	0.03	0.0	8.285	0.130	0	0	0	21
PL.70036	PL.70035	C	#1/0 ACSR	7.33Y	122.2	0.04	2.83	14.26	6	101	27	97	0.03	0.0	8.405	0.120	0	0	0	21
PL.69840	PL.70036	C	#1/0 ACSR	7.33Y	122.1	0.04	2.87	14.26	6	101	27	97	0.03	0.0	8.539	0.134	0	0	0	21

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Balanced Voltage Drop Report
Source: Tyner

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.69841	PL.69840	C	#1/0 ACSR	7.33Y	122.1	0.02	2.89	14.26	6	101	27	97	0.01	0.0	8.602	0.062	0	0	0	21
PL.69842	PL.69841	C	#1/0 ACSR	7.33Y	122.1	0.02	2.91	11.64	5	82	22	97	0.01	0.0	8.664	0.062	0	0	0	15
PL.69975	PL.69842	C	#1/0 ACSR	7.33Y	122.1	0.00	2.91	11.64	5	82	22	97	0.00	0.0	8.683	0.018	7	2	1	15
PL.69845	PL.69975	C	#4 ACSR	7.33Y	122.1	0.00	2.91	10.72	8	76	20	97	0.00	0.0	8.687	0.005	0	0	0	14
PD.10534	PL.69845	C	40T	7.33Y	122.1	0.00	2.91	10.72	0	76	20	97	0.00	0.0	8.687	0.005	0	0	0	14
PL.69846	PD.10534	C	#4 ACSR	7.32Y	122.1	0.02	2.93	10.00	8	71	19	97	0.01	0.0	8.727	0.040	9	2	1	13
PL.69847	PL.69846	C	#4 ACSR	7.32Y	122.0	0.03	2.97	8.71	7	62	16	97	0.02	0.0	8.815	0.088	0	0	0	12
PL.69873	PL.69847	C	#4 ACSR	7.32Y	122.0	0.01	2.97	3.02	2	21	6	96	0.00	0.0	8.859	0.045	6	2	1	4
PL.69875	PL.69873	C	#4 ACSR	7.32Y	122.0	0.00	2.97	1.18	1	8	2	97	0.00	0.0	8.933	0.073	8	2	1	1
PL.69874	PL.69873	C	#2 ACSR	7.32Y	122.0	0.00	2.97	0.97	1	7	2	96	0.00	0.0	8.976	0.117	0	0	0	2
PL.69876	PL.69874	C	#2 ACSR	7.32Y	122.0	0.00	2.97	0.03	0	0	0	100	0.00	0.0	9.082	0.105	0	0	1	1
PL.69877	PL.69874	C	#2 ACSR	7.32Y	122.0	0.00	2.97	0.93	1	7	2	96	0.00	0.0	9.023	0.047	7	2	1	1
PL.70174	PL.69847	C	#4 ACSR	7.32Y	122.0	0.02	2.98	5.69	4	40	11	96	0.01	0.0	8.895	0.080	8	2	1	8
PL.70175	PL.70174	C	#4 ACSR	7.32Y	122.0	0.01	2.99	4.53	3	32	8	97	0.00	0.0	8.930	0.036	8	2	3	7
PL.70184	PL.70175	C	#4 ACSR	7.32Y	122.0	0.00	2.99	3.41	3	24	6	97	0.00	0.0	8.974	0.044	14	4	2	4
PL.70185	PL.70184	C	#4 ACSR	7.32Y	122.0	0.00	3.00	1.37	1	10	3	96	0.00	0.0	9.018	0.044	0	0	0	2
PL.70186	PL.70185	C	#1/0 ACSR	7.32Y	122.0	0.00	3.00	1.37	1	10	3	96	0.00	0.0	9.061	0.043	0	0	1	2
PL.70187	PL.70186	C	#1/0 ACSR	7.32Y	122.0	0.00	3.00	1.37	1	10	3	96	0.00	0.0	9.105	0.044	10	3	1	1
PL.69976	PD.10534	C	#4 ACSR	7.33Y	122.1	0.00	2.92	0.72	1	5	1	98	0.00	0.0	8.732	0.045	5	1	1	1
PL.69844	PL.69841	C	#2 ACSR	7.33Y	122.1	0.00	2.89	2.61	1	18	5	96	0.00	0.0	8.606	0.005	0	0	0	6
PD.10492	PL.69844	C	40T	7.33Y	122.1	0.00	2.89	2.61	0	18	5	96	0.00	0.0	8.606	0.005	0	0	0	6
PL.69843	PD.10492	C	#4 ACSR	7.33Y	122.1	0.00	2.89	1.53	1	11	3	96	0.00	0.0	8.639	0.032	0	0	0	5
PL.69872	PL.69843	C	#4 ACSR	7.33Y	122.1	0.00	2.89	0.56	0	4	1	97	0.00	0.0	8.673	0.034	4	1	1	1
PL.69871	PL.69843	C	#1/0 ACSR	7.33Y	122.1	0.00	2.89	0.97	0	7	2	96	0.00	0.0	8.687	0.048	2	1	1	4
PL.69870	PL.69871	C	#1/0 ACSR	7.33Y	122.1	0.00	2.90	0.68	0	5	1	98	0.00	0.0	8.773	0.086	5	1	3	3
PL.70045	PL.69870	C	#4 ACSR	7.33Y	122.1	0.00	2.90	0.00	0	0	0	100	0.00	0.0	8.777	0.004	0	0	0	0
PD.10542-A	PL.70045	C	Open	7.33Y	122.1	0.00	2.90	0.00	0	0	0	100	0.00	0.0	8.777	0.004	0	0	0	0
PL.69974	PD.10492	C	#2 ACSR	7.33Y	122.1	0.00	2.89	1.08	1	8	2	97	0.00	0.0	8.665	0.058	8	2	1	1
PL.70342	PL.70199	A	#2 ACSR	7.35Y	122.5	0.01	2.49	52.29	30	371	101	96	0.02	0.0	7.483	0.005	0	0	0	68
PD.10496	PL.70342	A	40T	7.35Y	122.5	0.00	2.49	52.29	0	371	101	96	0.00	0.0	7.483	0.005	0	0	0	68
PL.70343	PD.10496	A	#2 ACSR	7.35Y	122.5	0.02	2.52	52.29	30	371	101	96	0.07	0.0	7.499	0.015	0	0	0	68

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

Balanced Voltage Drop Report
Source: Tyner

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.70200	PL.70343	A	#1/0 ACSR	7.34Y	122.4	0.10	2.61	50.80	22	360	98	96	0.23	0.1	7.582	0.084	8	2	1	67
PL.70201	PL.70200	A	#1/0 ACSR	7.34Y	122.3	0.09	2.71	49.70	22	352	95	97	0.21	0.1	7.662	0.080	1	0	2	66
PL.70202	PL.70201	A	#1/0 ACSR	7.33Y	122.2	0.09	2.79	49.56	22	351	95	97	0.20	0.1	7.738	0.076	0	0	1	64
PL.69850	PL.70202	A	#1/0 ACSR	7.33Y	122.1	0.08	2.88	49.53	22	351	95	97	0.19	0.1	7.814	0.076	18	5	2	63
PL.69851	PL.69850	A	#1/0 ACSR	7.33Y	122.1	0.02	2.90	8.12	4	58	15	97	0.01	0.0	7.932	0.118	0	0	0	11
PL.69979	PL.69851	A	#1/0 ACSR	7.32Y	122.1	0.02	2.92	5.81	3	41	11	97	0.01	0.0	8.097	0.165	0	0	0	9
PL.70040	PL.69979	A	#1/0 ACSR	7.32Y	122.1	0.02	2.94	5.81	3	41	11	97	0.00	0.0	8.234	0.137	0	0	0	9
PL.70041	PL.70040	A	#1/0 ACSR	7.32Y	122.1	0.01	2.95	5.81	3	41	11	97	0.00	0.0	8.290	0.057	0	0	0	9
PL.70356	PL.70041	A	#2 ACSR	7.32Y	122.1	0.00	2.95	1.09	1	8	2	97	0.00	0.0	8.295	0.005	0	0	0	1
PD.10504	PL.70356	A	40T	7.32Y	122.1	0.00	2.95	1.09	0	8	2	97	0.00	0.0	8.295	0.005	0	0	0	1
PL.70357	PD.10504	A	#2 ACSR	7.32Y	122.1	0.00	2.95	1.09	1	8	2	97	0.00	0.0	8.316	0.021	8	2	1	1
PL.70215	PL.70041	A	#1/0 ACSR	7.32Y	122.0	0.01	2.95	4.72	2	33	9	96	0.00	0.0	8.358	0.067	6	2	1	8
PL.70216	PL.70215	A	#1/0 ACSR	7.32Y	122.0	0.01	2.96	3.87	2	27	7	97	0.00	0.0	8.452	0.094	7	2	1	7
PL.69907	PL.70216	A	#1/0 ACSR	7.32Y	122.0	0.00	2.97	2.91	1	21	5	97	0.00	0.0	8.516	0.064	8	2	2	6
PL.69981	PL.69907	A	#1/0 ACSR	7.32Y	122.0	0.00	2.97	1.71	1	12	3	97	0.00	0.0	8.621	0.105	3	1	2	4
PL.70358	PL.69981	A	#4 ACSR	7.32Y	122.0	0.00	2.97	1.28	1	9	2	98	0.00	0.0	8.625	0.004	0	0	0	2
PD.10505	PL.70358	A	25T	7.32Y	122.0	0.00	2.97	1.28	0	9	2	98	0.00	0.0	8.625	0.004	0	0	0	2
PL.70359	PD.10505	A	#4 ACSR	7.32Y	122.0	0.00	2.97	1.28	1	9	2	98	0.00	0.0	8.690	0.065	0	0	0	2
PL.69908	PL.70359	A	#1/0 ACSR	7.32Y	122.0	0.00	2.97	0.00	0	0	0	100	0.00	0.0	8.735	0.045	0	0	0	0
PL.69982	PL.70359	A	#4 ACSR	7.32Y	122.0	0.00	2.98	1.28	1	9	2	98	0.00	0.0	8.845	0.155	9	2	2	2
PL.69906	PL.69851	A	#2 ACSR	7.33Y	122.1	0.00	2.90	2.31	1	16	4	97	0.00	0.0	7.936	0.005	0	0	0	2
PD.10503	PL.69906	A	20T	7.33Y	122.1	0.00	2.90	2.31	0	16	4	97	0.00	0.0	7.936	0.005	0	0	0	2
PL.69980	PD.10503	A	#2 ACSR	7.33Y	122.1	0.00	2.90	0.89	1	6	2	95	0.00	0.0	8.052	0.115	0	0	0	1
PL.70038	PL.69980	A	#2 ACSR	7.33Y	122.1	0.00	2.91	0.89	1	6	2	95	0.00	0.0	8.181	0.130	0	0	0	1
PL.70039	PL.70038	A	#2 ACSR	7.33Y	122.1	0.00	2.91	0.89	1	6	2	95	0.00	0.0	8.287	0.105	6	2	1	1
PL.69905	PD.10503	A	#1/0 ACSR	7.33Y	122.1	0.00	2.90	1.42	1	10	3	96	0.00	0.0	7.986	0.050	10	3	1	1
PL.70398	PL.69850	A	#1/0 ACSR	7.33Y	122.1	0.00	2.88	38.81	17	275	74	97	0.01	0.0	7.819	0.005	0	0	0	50
PD.10526	PL.70398	A	40T	7.33Y	122.1	0.00	2.88	38.81	0	275	74	97	0.00	0.0	7.819	0.005	0	0	0	50
PL.70399	PD.10526	A	#1/0 ACSR	7.32Y	122.1	0.04	2.92	38.81	17	275	74	97	0.07	0.0	7.861	0.042	0	0	0	50
PL.70348	PL.70399	A	#1/0 ACSR	7.32Y	122.1	0.00	2.92	1.03	0	7	2	96	0.00	0.0	7.866	0.005	0	0	0	1
PD.10499	PL.70348	A	25T	7.32Y	122.1	0.00	2.92	1.03	0	7	2	96	0.00	0.0	7.866	0.005	0	0	0	1

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Balanced Voltage Drop Report
Source: Tyner

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.70349	PD.10499	A	#1/0 ACSR	7.32Y	122.1	0.00	2.92	1.03	0	7	2	96	0.00	0.0	7.936	0.071	7	2	1	1
PL.70213	PL.70399	A	#1/0 ACSR	7.32Y	122.0	0.09	3.01	37.78	16	267	72	97	0.16	0.1	7.971	0.110	10	3	1	49
PL.70214	PL.70213	A	#1/0 ACSR	7.32Y	122.0	0.03	3.05	36.43	16	257	70	96	0.06	0.0	8.010	0.039	0	0	0	48
PL.70428	PL.70214	A	#1/0 ACSR	7.32Y	121.9	0.00	3.05	36.43	16	257	69	97	0.01	0.0	8.014	0.005	0	0	0	48
PD.10545-A	PL.70428	A	Closed	7.32Y	121.9	0.00	3.05	36.43	0	257	69	97	0.00	0.0	8.014	0.005	0	0	0	48
PD.10545-B	PD.10545-A	A	Closed	7.32Y	121.9	0.00	3.05	36.43	0	257	69	97	0.00	0.0	8.014	0.005	0	0	0	48
PL.70429	PD.10545-B	A	#1/0 ACSR	7.31Y	121.9	0.08	3.13	36.43	16	257	69	97	0.14	0.1	8.113	0.099	11	3	2	48
PL.70354	PL.70429	A	#1/0 ACSR	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	8.118	0.005	0	0	0	0
PD.10502	PL.70354	A	25T	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	8.118	0.005	0	0	0	0
PL.70355	PD.10502	A	#1/0 ACSR	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	8.224	0.106	0	0	0	0
PL.69983	PL.70429	A	#1/0 ACSR	7.30Y	121.7	0.12	3.26	34.93	15	247	66	97	0.20	0.1	8.267	0.154	0	0	0	46
PL.69852	PL.69983	A	#1/0 ACSR	7.30Y	121.7	0.04	3.30	34.93	15	246	66	97	0.07	0.0	8.319	0.052	0	0	1	46
PL.69984	PL.69852	A	#1/0 ACSR	7.30Y	121.6	0.11	3.41	34.60	15	244	66	97	0.17	0.1	8.456	0.137	9	2	2	44
PL.69853	PL.69984	A	#4 ACSR	7.30Y	121.6	0.00	3.41	0.01	0	0	0	100	0.00	0.0	8.510	0.054	0	0	1	1
PL.69854	PL.69984	A	#4 ACSR	7.29Y	121.5	0.10	3.50	33.31	26	235	63	97	0.18	0.1	8.523	0.067	0	0	0	41
PL.69855	PL.69854	A	#4 ACSR	7.29Y	121.5	0.00	3.50	0.61	0	4	1	97	0.00	0.0	8.572	0.049	4	1	1	1
PL.70350	PL.69854	A	#1/0 ACSR	7.29Y	121.5	0.00	3.51	32.71	14	230	62	97	0.01	0.0	8.528	0.005	0	0	0	40
PD.10500	PL.70350	A	20T	7.29Y	121.5	0.00	3.51	32.71	0	230	62	97	0.00	0.0	8.528	0.005	0	0	0	40
PL.70351	PD.10500	A	#1/0 ACSR	7.29Y	121.4	0.05	3.56	32.71	14	230	62	97	0.08	0.0	8.597	0.069	0	0	0	40
PL.70424	PL.70351	A	#4 ACSR	7.29Y	121.4	0.01	3.57	32.71	25	230	62	97	0.01	0.0	8.602	0.005	0	0	0	40
PD.10543-A	PL.70424	A	Closed	7.29Y	121.4	0.00	3.57	32.71	0	230	62	97	0.00	0.0	8.602	0.005	0	0	0	40
PD.10543-B	PD.10543-A	A	Closed	7.29Y	121.4	0.00	3.57	32.71	0	230	62	97	0.00	0.0	8.602	0.005	0	0	0	40
PL.70425	PD.10543-B	A	#4 ACSR	7.27Y	121.2	0.23	3.80	32.71	25	230	62	97	0.41	0.2	8.769	0.167	14	4	2	40
PL.69856	PL.70425	A	#4 ACSR	7.27Y	121.2	0.03	3.83	30.68	24	216	58	97	0.05	0.0	8.790	0.022	0	0	0	38
PL.69985	PL.69856	A	#4 ACSR	7.27Y	121.1	0.07	3.90	29.96	23	210	56	97	0.11	0.1	8.843	0.053	8	2	1	37
PL.69859	PL.69985	A	#4 ACSR	7.26Y	121.0	0.06	3.96	27.54	21	193	52	97	0.09	0.0	8.894	0.051	0	0	0	35
PL.69861	PL.69859	A	#1/0 ACSR	7.26Y	121.0	0.00	3.96	1.23	1	9	2	98	0.00	0.0	8.942	0.048	6	2	1	2
PL.69986	PL.69861	A	#1/0 ACSR	7.26Y	121.0	0.00	3.96	0.35	0	2	1	89	0.00	0.0	9.007	0.065	2	1	1	1
PL.69860	PL.69859	A	#4 ACSR	7.26Y	121.0	0.01	3.97	26.31	20	185	49	97	0.02	0.0	8.903	0.009	0	0	0	33
PL.70426	PL.69860	A	#1/0 ACSR	7.26Y	121.0	0.02	3.99	26.31	11	185	49	97	0.02	0.0	8.933	0.030	0	0	0	33
PD.10544-A	PL.70426	A	Closed	7.26Y	121.0	0.00	3.99	26.31	0	185	49	97	0.00	0.0	8.933	0.030	0	0	0	33

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: Tyner

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.10544-B	PD.10544-A	A	Closed	7.26Y	121.0	0.00	3.99	26.31	0	185	49	97	0.00	0.0	8.933	0.030	0	0	0	33
PL.70427	PD.10544-B	A	#1/0 ACSR	7.26Y	121.0	0.05	4.04	26.31	11	185	49	97	0.06	0.0	9.012	0.079	4	1	1	33
PL.69862	PL.70427	A	#4 ACSR	7.26Y	121.0	0.00	4.04	1.31	1	9	2	98	0.00	0.0	9.166	0.154	9	2	3	3
PL.69863	PL.70427	A	6 A (CWC)	7.25Y	120.9	0.07	4.11	24.38	17	171	46	97	0.09	0.1	9.076	0.064	7	2	1	29
PL.70352	PL.69863	A	#1/0 ACSR	7.25Y	120.9	0.00	4.11	1.46	1	10	3	96	0.00	0.0	9.081	0.005	0	0	0	2
PD.10501	PL.70352	A	10T	7.25Y	120.9	0.00	4.11	1.46	0	10	3	96	0.00	0.0	9.081	0.005	0	0	0	2
PL.70353	PD.10501	A	#1/0 ACSR	7.25Y	120.9	0.00	4.11	1.46	1	10	3	96	0.00	0.0	9.137	0.056	0	0	1	2
PL.69864	PL.70353	A	#1/0 ACSR	7.25Y	120.9	0.00	4.11	1.46	1	10	3	96	0.00	0.0	9.271	0.134	10	3	1	1
PL.69987	PL.69863	A	6 A (CWC)	7.25Y	120.8	0.06	4.17	21.96	16	154	41	97	0.07	0.0	9.134	0.058	2	1	1	26
PL.69865	PL.69987	A	6 A (CWC)	7.25Y	120.8	0.05	4.22	21.65	15	152	40	97	0.06	0.0	9.189	0.055	9	2	1	25
PL.70207	PL.69865	A	6 A (CWC)	7.24Y	120.7	0.04	4.26	20.36	15	143	38	97	0.04	0.0	9.231	0.042	10	3	1	24
PL.70208	PL.70207	A	6 A (CWC)	7.24Y	120.7	0.05	4.31	18.87	13	132	35	97	0.05	0.0	9.297	0.066	11	3	2	23
PL.70209	PL.70208	A	6 A (CWC)	7.24Y	120.6	0.04	4.35	17.36	12	121	32	97	0.04	0.0	9.353	0.056	10	3	2	21
PL.70210	PL.70209	A	6 A (CWC)	7.23Y	120.5	0.10	4.45	15.89	11	111	30	97	0.08	0.1	9.486	0.133	0	0	0	19
PL.70042	PL.70210	A	6 A (CWC)	7.22Y	120.4	0.13	4.58	15.89	11	111	30	97	0.11	0.1	9.670	0.184	0	0	0	19
PL.69275	PL.70042	A	6 A (CWC)	7.22Y	120.3	0.10	4.68	15.89	11	111	30	97	0.08	0.1	9.805	0.135	0	0	0	19
PL.69988	PL.69275	A	6 A (CWC)	7.22Y	120.3	0.05	4.73	14.36	10	100	27	97	0.04	0.0	9.885	0.080	0	0	0	18
PL.70211	PL.69988	A	6 A (CWC)	7.21Y	120.2	0.03	4.77	14.36	10	100	27	97	0.03	0.0	9.937	0.052	4	1	2	18
PL.70212	PL.70211	A	6 A (CWC)	7.21Y	120.2	0.07	4.84	13.81	10	96	26	97	0.05	0.1	10.051	0.114	9	2	1	16
PL.70206	PL.70212	A	6 A (CWC)	7.21Y	120.1	0.05	4.88	12.51	9	87	23	97	0.03	0.0	10.131	0.079	0	0	0	15
PL.69277	PL.70206	A	6 A (CWC)	7.20Y	120.1	0.04	4.93	12.51	9	87	23	97	0.03	0.0	10.209	0.078	0	0	0	15
PL.69278	PL.69277	A	6 A (CWC)	7.20Y	120.1	0.00	4.93	0.93	1	6	2	95	0.00	0.0	10.237	0.028	6	2	1	1
PL.69989	PL.69277	A	6 A (CWC)	7.20Y	120.0	0.04	4.97	11.58	8	81	21	97	0.03	0.0	10.297	0.088	7	2	1	14
PL.69279	PL.69989	A	6 A (CWC)	7.20Y	120.0	0.07	5.04	9.70	7	68	18	97	0.04	0.1	10.463	0.166	0	0	0	12
PL.69283	PL.69279	A	6 A (CWC)	7.20Y	120.0	0.00	5.04	0.05	0	0	0	100	0.00	0.0	10.529	0.066	0	0	3	3
PL.69282	PL.69279	A	#4 ACSR	7.19Y	119.9	0.07	5.11	9.65	7	67	18	97	0.04	0.1	10.626	0.163	0	0	0	9
PL.70043	PL.69282	A	#4 ACSR	7.19Y	119.8	0.05	5.16	9.65	7	67	18	97	0.02	0.0	10.738	0.111	0	0	0	9
PL.69284	PL.70043	A	#4 ACSR	7.19Y	119.8	0.02	5.18	9.65	7	67	18	97	0.01	0.0	10.779	0.041	0	0	0	9
PL.69990	PL.69284	A	#4 ACSR	7.19Y	119.8	0.04	5.22	8.54	7	59	16	97	0.02	0.0	10.874	0.095	0	0	0	8
PL.69286	PL.69990	A	#4 ACSR	7.19Y	119.8	0.02	5.24	8.54	7	59	16	97	0.01	0.0	10.934	0.060	7	2	1	8
PL.70178	PL.69286	A	#4 ACSR	7.19Y	119.8	0.01	5.25	6.31	5	44	12	96	0.00	0.0	10.978	0.045	10	3	1	5

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Balanced Voltage Drop Report
Source: Tyner

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.70179	PL.70178	A	#4 ACSR	7.18Y	119.7	0.01	5.26	4.89	4	34	9	97	0.00	0.0	11.031	0.052	0	0	0	4
PL.69868	PL.70179	A	#4 ACSR	7.18Y	119.7	0.01	5.27	4.89	4	34	9	97	0.00	0.0	11.098	0.068	10	3	1	4
PL.70176	PL.69868	A	#4 ACSR	7.18Y	119.7	0.00	5.27	2.30	2	16	4	97	0.00	0.0	11.145	0.047	16	4	2	2
PL.70177	PL.70176	A	#4 ACSR	7.18Y	119.7	0.00	5.27	0.00	0	0	0	100	0.00	0.0	11.184	0.039	0	0	0	0
PD.10542-B	PL.70177	A	Open	7.18Y	119.7	0.00	5.27	0.00	0	0	0	100	0.00	0.0	11.184	0.039	0	0	0	0
PL.69869	PL.69868	A	#1/0 ACSR	7.18Y	119.7	0.00	5.27	1.17	1	8	2	97	0.00	0.0	11.160	0.061	8	2	1	1
PL.69866	PL.69286	A	#4 ACSR	7.19Y	119.8	0.00	5.24	1.20	1	8	2	97	0.00	0.0	10.966	0.032	8	2	2	2
PL.69867	PL.69866	A	#2 ACSR	7.19Y	119.8	0.00	5.24	0.00	0	0	0	100	0.00	0.0	11.031	0.066	0	0	0	0
PL.69285	PL.69284	A	#1/0 ACSR	7.19Y	119.8	0.00	5.18	1.11	0	8	2	97	0.00	0.0	10.833	0.055	8	2	1	1
PL.69281	PL.69989	A	#1/0 ACSR	7.20Y	120.0	0.00	4.97	0.89	0	6	2	95	0.00	0.0	10.334	0.037	6	2	1	1
PL.69280	PL.69989	A	#1/0 ACSR	7.20Y	120.0	0.00	4.97	0.00	0	0	0	100	0.00	0.0	10.437	0.140	0	0	0	0
PL.69276	PL.69275	A	#2 ACSR	7.22Y	120.3	0.00	4.68	1.53	1	11	3	96	0.00	0.0	9.896	0.091	11	3	1	1
PL.69274	PL.70042	A	#4 ACSR	7.22Y	120.4	0.00	4.58	0.00	0	0	0	100	0.00	0.0	9.746	0.076	0	0	0	0
PL.69858	PL.69985	A	#1/0 ACSR	7.27Y	121.1	0.00	3.90	1.26	1	9	2	98	0.00	0.0	8.887	0.044	9	2	1	1
PL.69857	PL.69856	A	#1/0 ACSR	7.27Y	121.2	0.00	3.83	0.71	0	5	1	98	0.00	0.0	8.818	0.028	5	1	1	1
PL.70414	PL.69852	A	#1/0 ACSR	7.30Y	121.7	0.00	3.30	0.30	0	2	1	89	0.00	0.0	8.323	0.005	0	0	0	1
PD.10536	PL.70414	A	40T	7.30Y	121.7	0.00	3.30	0.30	0	2	1	89	0.00	0.0	8.323	0.005	0	0	0	1
PL.70415	PD.10536	A	#1/0 ACSR	7.30Y	121.7	0.00	3.30	0.30	0	2	1	89	0.00	0.0	8.366	0.043	2	1	1	1
PL.70344	PL.70343	A	6 A (CWC)	7.35Y	122.5	0.00	2.52	1.49	1	11	3	96	0.00	0.0	7.503	0.005	0	0	0	1
PD.10497	PL.70344	A	25T	7.35Y	122.5	0.00	2.52	1.49	0	11	3	96	0.00	0.0	7.503	0.005	0	0	0	1
PL.70345	PD.10497	A	6 A (CWC)	7.35Y	122.5	0.01	2.52	1.49	1	11	3	96	0.00	0.0	7.596	0.092	0	0	0	1
PL.70037	PL.70345	A	6 A (CWC)	7.35Y	122.5	0.01	2.53	1.49	1	11	3	96	0.00	0.0	7.697	0.102	0	0	0	1
PL.69838	PL.70037	A	#4 ACSR	7.35Y	122.5	0.00	2.53	1.49	1	11	3	96	0.00	0.0	7.754	0.057	11	3	1	1
PL.70394	PL.70031	B	#4 ACSR	7.36Y	122.7	0.00	2.26	0.35	0	3	1	95	0.00	0.0	6.959	0.005	0	0	0	1
PD.10524	PL.70394	B	40T	7.36Y	122.7	0.00	2.26	0.35	0	3	1	95	0.00	0.0	6.959	0.005	0	0	0	1
PL.70395	PD.10524	B	#4 ACSR	7.36Y	122.7	0.00	2.26	0.35	0	3	1	95	0.00	0.0	7.025	0.065	3	1	1	1
PL.70396	PL.70031	B	#4 ACSR	7.36Y	122.7	0.00	2.26	2.03	2	14	4	96	0.00	0.0	6.960	0.005	0	0	0	2
PD.10525	PL.70396	B	40T	7.36Y	122.7	0.00	2.26	2.03	0	14	4	96	0.00	0.0	6.960	0.005	0	0	0	2
PL.70397	PD.10525	B	#4 ACSR	7.36Y	122.7	0.00	2.26	2.03	2	14	4	96	0.00	0.0	6.986	0.027	8	2	1	2
PL.70203	PL.70397	B	#4 ACSR	7.36Y	122.7	0.00	2.26	0.96	1	7	2	96	0.00	0.0	7.052	0.065	0	0	0	1
PL.69835	PL.70203	B	#4 ACSR	7.36Y	122.7	0.00	2.26	0.96	1	7	2	96	0.00	0.0	7.086	0.034	0	0	0	1

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Balanced Voltage Drop Report
Source: Tyner

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.69837	PL.69835	B	#4 ACSR	7.36Y	122.7	0.00	2.26	0.96	1	7	2	96	0.00	0.0	7.104	0.018	7	2	1	1
PL.70284	PL.69818	C	#2 ACSR	7.40Y	123.4	0.00	1.63	0.69	0	5	1	98	0.00	0.0	5.721	0.004	0	0	0	1
PD.10467	PL.70284	C	40T	7.40Y	123.4	0.00	1.63	0.69	0	5	1	98	0.00	0.0	5.721	0.004	0	0	0	1
PL.70285	PD.10467	C	#2 ACSR	7.40Y	123.4	0.00	1.63	0.69	0	5	1	98	0.00	0.0	5.755	0.033	5	1	1	1
PL.70388	PL.70443	C	#4 ACSR	7.41Y	123.6	0.00	1.42	1.70	1	12	3	97	0.00	0.0	5.281	0.005	0	0	0	1
PD.10521	PL.70388	C	30T	7.41Y	123.6	0.00	1.42	1.70	0	12	3	97	0.00	0.0	5.281	0.005	0	0	0	1
PL.70389	PD.10521	C	#4 ACSR	7.41Y	123.6	0.00	1.42	1.70	1	12	3	97	0.00	0.0	5.330	0.049	12	3	1	1
CP.108	PL.70442	ABC	Cap (450)	7.42Y	123.6	0.00	1.38	0.00	0	0	0	100	0.00	0.0	5.167	0.049	0	0	0	0
PL.69812	PL.70054	A	#4 ACSR	7.42Y	123.7	0.00	1.26	1.26	1	9	2	98	0.00	0.0	4.870	0.005	0	0	0	3
PD.10530	PL.69812	A	25T	7.42Y	123.7	0.00	1.26	1.26	0	9	2	98	0.00	0.0	4.870	0.005	0	0	0	3
PL.69813	PD.10530	A	#4 ACSR	7.42Y	123.7	0.00	1.26	0.65	1	5	1	98	0.00	0.0	4.907	0.037	5	1	1	1
PL.69966	PD.10530	A	#4 ACSR	7.42Y	123.7	0.00	1.26	0.61	0	4	1	97	0.00	0.0	4.970	0.100	4	1	2	2
PL.70274	PL.69950	C	#4 ACSR	7.43Y	123.8	0.00	1.17	1.06	1	8	2	97	0.00	0.0	4.640	0.005	0	0	0	1
PD.10462	PL.70274	C	25T	7.43Y	123.8	0.00	1.17	1.06	0	8	2	97	0.00	0.0	4.640	0.005	0	0	0	1
PL.70275	PD.10462	C	#4 ACSR	7.43Y	123.8	0.00	1.17	1.06	1	8	2	97	0.00	0.0	4.751	0.111	8	2	1	1
PL.69748	PL.69747	ABC	#1/0 ACSR	7.43Y	123.8	0.03	1.18	33.71	15	717	224	95	0.14	0.0	4.649	0.047	0	0	0	137
PL.69952	PL.69748	ABC	#1/0 ACSR	7.43Y	123.8	0.03	1.21	29.77	13	637	187	96	0.13	0.0	4.706	0.057	0	0	0	133
PL.69751	PL.69952	ABC	#1/0 ACSR	7.43Y	123.8	0.03	1.24	29.12	13	622	183	96	0.12	0.0	4.761	0.054	0	0	0	131
PL.70438	PL.69751	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.24	29.12	13	622	183	96	0.01	0.0	4.763	0.003	0	0	0	131
PD.10550	PL.70438	ABC	50L	7.43Y	123.8	0.00	1.24	29.12	58	622	183	96	0.00	0.0	4.763	0.003	0	0	0	131
PL.70439	PD.10550	ABC	#1/0 ACSR	7.42Y	123.7	0.02	1.26	29.12	13	622	183	96	0.08	0.0	4.800	0.036	0	0	0	131
PL.69752	PL.70439	ABC	#1/0 ACSR	7.42Y	123.7	0.03	1.29	29.12	13	622	183	96	0.12	0.0	4.852	0.052	0	0	0	131
PL.69753	PL.69752	ABC	#1/0 ACSR	7.42Y	123.7	0.04	1.33	29.12	13	622	183	96	0.16	0.0	4.925	0.073	6	2	1	131
PL.69754	PL.69753	ABC	#1/0 ACSR	7.42Y	123.6	0.03	1.36	28.86	13	616	181	96	0.15	0.0	4.991	0.067	0	0	0	130
PL.69755	PL.69754	ABC	#1/0 ACSR	7.42Y	123.6	0.02	1.38	28.86	13	616	181	96	0.08	0.0	5.028	0.037	2	0	1	130
PL.69756	PL.69755	ABC	#1/0 ACSR	7.42Y	123.6	0.02	1.40	28.78	13	614	181	96	0.08	0.0	5.062	0.034	0	0	0	129
PL.69757	PL.69756	ABC	#1/0 ACSR	7.41Y	123.6	0.03	1.43	28.78	13	614	181	96	0.12	0.0	5.119	0.057	24	6	2	129
PL.69758	PL.69757	ABC	#1/0 ACSR	7.41Y	123.5	0.03	1.46	27.66	12	590	174	96	0.12	0.0	5.180	0.061	8	2	1	127
PL.69759	PL.69758	ABC	#1/0 ACSR	7.41Y	123.5	0.03	1.49	27.29	12	582	172	96	0.12	0.0	5.241	0.061	0	0	0	126
PL.69760	PL.69759	ABC	#1/0 ACSR	7.41Y	123.5	0.04	1.53	27.29	12	582	172	96	0.15	0.0	5.316	0.075	0	0	0	126
PL.70376	PL.69760	A	6 A (CWC)	7.41Y	123.5	0.00	1.53	0.52	0	4	1	97	0.00	0.0	5.320	0.004	0	0	0	1

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Balanced Voltage Drop Report
Source: Tyner

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.10515	PL.70376	A	40T	7.41Y	123.5	0.00	1.53	0.52	0	4	1	97	0.00	0.0	5.320	0.004	0	0	0	1
PL.70377	PD.10515	A	6 A (CWC)	7.41Y	123.5	0.00	1.53	0.52	0	4	1	97	0.00	0.0	5.365	0.045	4	1	1	1
PL.70272	PL.69760	C	6 A (CWC)	7.41Y	123.5	0.00	1.53	1.42	1	10	3	96	0.00	0.0	5.320	0.004	0	0	0	3
PD.10461	PL.70272	C	40T	7.41Y	123.5	0.00	1.53	1.42	0	10	3	96	0.00	0.0	5.320	0.004	0	0	0	3
PL.70273	PD.10461	C	6 A (CWC)	7.41Y	123.5	0.00	1.53	1.42	1	10	3	96	0.00	0.0	5.368	0.048	8	2	2	3
PL.69761	PL.70273	C	#1/0 ACSR	7.41Y	123.5	0.00	1.53	0.32	0	2	1	89	0.00	0.0	5.415	0.046	0	0	0	1
PL.69909	PL.69761	C	#1/0 ACSR	7.41Y	123.5	0.00	1.53	0.32	0	2	1	89	0.00	0.0	5.555	0.140	2	1	1	1
PL.70002	PL.69760	ABC	#1/0 ACSR	7.41Y	123.4	0.03	1.56	26.64	12	568	168	96	0.13	0.0	5.386	0.070	0	0	0	122
PL.70084	PL.70002	ABC	#1/0 ACSR	7.41Y	123.4	0.02	1.58	26.64	12	568	168	96	0.06	0.0	5.420	0.034	6	2	1	122
PL.70085	PL.70084	ABC	#1/0 ACSR	7.40Y	123.4	0.02	1.60	26.37	11	562	166	96	0.09	0.0	5.471	0.050	0	0	0	121
PL.69762	PL.70085	C	#2 ACSR	7.40Y	123.4	0.00	1.60	0.68	0	5	1	98	0.00	0.0	5.492	0.021	5	1	2	2
PL.70082	PL.70085	ABC	#1/0 ACSR	7.40Y	123.4	0.04	1.64	26.14	11	557	165	96	0.16	0.0	5.558	0.087	0	0	1	119
PL.70083	PL.70082	ABC	#1/0 ACSR	7.40Y	123.3	0.03	1.67	26.14	11	557	165	96	0.10	0.0	5.612	0.054	0	0	0	118
PL.69763	PL.70083	ABC	#1/0 ACSR	7.40Y	123.3	0.03	1.69	26.14	11	556	165	96	0.10	0.0	5.666	0.054	0	0	0	118
PL.70266	PL.69763	A	#1/0 ACSR	7.40Y	123.3	0.00	1.69	2.32	1	17	4	97	0.00	0.0	5.671	0.005	0	0	0	2
PD.10458	PL.70266	A	40T	7.40Y	123.3	0.00	1.69	2.32	0	17	4	97	0.00	0.0	5.671	0.005	0	0	0	2
PL.70267	PD.10458	A	#1/0 ACSR	7.40Y	123.3	0.00	1.70	2.32	1	17	4	97	0.00	0.0	5.690	0.020	17	4	2	2
PL.69764	PL.69763	ABC	#1/0 ACSR	7.40Y	123.3	0.02	1.72	25.37	11	540	160	96	0.08	0.0	5.714	0.048	0	0	0	116
PL.69765	PL.69764	ABC	#1/0 ACSR	7.40Y	123.3	0.02	1.73	25.37	11	540	160	96	0.06	0.0	5.749	0.035	0	0	0	116
PL.69766	PL.69765	ABC	#1/0 ACSR	7.39Y	123.2	0.05	1.79	25.37	11	540	160	96	0.19	0.0	5.862	0.114	0	0	0	116
PL.70264	PL.69766	C	6 A (CWC)	7.39Y	123.2	0.00	1.79	4.70	3	34	9	97	0.00	0.0	5.867	0.005	0	0	0	10
PD.10457	PL.70264	C	20T	7.39Y	123.2	0.00	1.79	4.70	0	34	9	97	0.00	0.0	5.867	0.005	0	0	0	10
PL.70265	PD.10457	C	6 A (CWC)	7.39Y	123.2	0.01	1.80	4.70	3	34	9	97	0.00	0.0	5.919	0.052	7	2	1	10
PL.69768	PL.70265	C	6 A (CWC)	7.39Y	123.2	0.01	1.81	3.67	3	26	7	97	0.00	0.0	5.985	0.066	9	2	1	9
PL.69769	PL.69768	C	6 A (CWC)	7.39Y	123.2	0.01	1.82	2.35	2	17	4	97	0.00	0.0	6.082	0.097	0	0	0	8
PL.69770	PL.69769	C	6 A (CWC)	7.39Y	123.2	0.02	1.83	2.35	2	17	4	97	0.00	0.0	6.244	0.161	0	0	0	8
PL.68577	PL.69770	C	6 A (CWC)	7.39Y	123.2	0.01	1.85	2.35	2	17	4	97	0.00	0.0	6.375	0.131	0	0	0	8
PL.68578	PL.68577	C	6 A (CWC)	7.39Y	123.1	0.01	1.86	2.35	2	17	4	97	0.00	0.0	6.466	0.091	0	0	0	8
PL.68579	PL.68578	C	6 A (CWC)	7.39Y	123.1	0.01	1.87	2.35	2	17	4	97	0.00	0.0	6.585	0.120	2	0	1	8
PL.68580	PL.68579	C	6 A (CWC)	7.39Y	123.1	0.01	1.88	2.09	1	15	4	97	0.00	0.0	6.686	0.101	0	0	1	7
PL.69771	PL.68580	C	6 A (CWC)	7.39Y	123.1	0.01	1.89	2.09	1	15	4	97	0.00	0.0	6.786	0.100	2	1	1	6

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Balanced Voltage Drop Report
Source: Tyner

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.68575	PL.69771	C	6 A (CWC)	7.39Y	123.1	0.00	1.89	0.89	1	6	2	95	0.00	0.0	6.905	0.119	3	1	2	3
PL.68576	PL.68575	C	6 A (CWC)	7.39Y	123.1	0.00	1.89	0.46	0	3	1	95	0.00	0.0	6.962	0.056	3	1	1	1
PL.69945	PL.69771	C	6 A (CWC)	7.39Y	123.1	0.00	1.89	0.88	1	6	2	95	0.00	0.0	6.865	0.079	0	0	0	2
PL.69773	PL.69945	C	#4 ACSR	7.39Y	123.1	0.00	1.89	0.88	1	6	2	95	0.00	0.0	6.933	0.068	6	2	2	2
PL.69774	PL.69773	C	#2 ACSR	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	6.962	0.028	0	0	0	0
PL.69944	PL.69945	C	6 A (CWC)	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	6.938	0.073	0	0	0	0
PL.69772	PL.68580	C	#4 ACSR	7.39Y	123.1	0.00	1.88	0.00	0	0	0	100	0.00	0.0	6.710	0.024	0	0	0	0
PL.69767	PL.69766	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.80	23.80	10	506	151	96	0.06	0.0	5.903	0.041	0	0	0	106
PL.70050	PL.69767	ABC	#1/0 ACSR	7.39Y	123.1	0.06	1.86	23.80	10	506	151	96	0.22	0.0	6.047	0.144	0	0	0	106
PL.70262	PL.70050	A	#2 ACSR	7.39Y	123.1	0.00	1.87	0.02	0	0	0	100	0.00	0.0	6.051	0.005	0	0	0	1
PD.10456	PL.70262	A	40T	7.39Y	123.1	0.00	1.87	0.02	0	0	0	100	0.00	0.0	6.051	0.005	0	0	0	1
PL.70263	PD.10456	A	#2 ACSR	7.39Y	123.1	0.00	1.87	0.02	0	0	0	100	0.00	0.0	6.072	0.021	0	0	1	1
PL.70051	PL.70050	ABC	#1/0 ACSR	7.39Y	123.1	0.04	1.91	23.79	10	505	151	96	0.15	0.0	6.145	0.098	0	0	0	105
PL.69954	PL.70051	ABC	#1/0 ACSR	7.38Y	123.1	0.04	1.95	23.79	10	505	150	96	0.14	0.0	6.237	0.093	0	0	0	105
PL.69955	PL.69954	ABC	#1/0 ACSR	7.38Y	123.0	0.05	2.00	23.19	10	492	147	96	0.16	0.0	6.351	0.114	0	0	0	102
PL.70380	PL.69955	A	#1/0 ACSR	7.38Y	123.0	0.00	2.00	1.45	1	10	3	96	0.00	0.0	6.356	0.005	0	0	0	2
PD.10517	PL.70380	A	40T	7.38Y	123.0	0.00	2.00	1.45	0	10	3	96	0.00	0.0	6.356	0.005	0	0	0	2
PL.70381	PD.10517	A	#1/0 ACSR	7.38Y	123.0	0.00	2.00	1.45	1	10	3	96	0.00	0.0	6.387	0.031	7	2	1	2
PL.69775	PL.70381	A	#4 ACSR	7.38Y	123.0	0.00	2.00	0.54	0	4	1	97	0.00	0.0	6.475	0.088	4	1	1	1
PL.69956	PL.69955	ABC	#1/0 ACSR	7.38Y	122.9	0.07	2.07	22.70	10	482	144	96	0.23	0.0	6.519	0.168	0	0	0	100
PL.70254	PL.69956	C	#4 ACSR	7.38Y	122.9	0.00	2.07	1.52	1	11	3	96	0.00	0.0	6.524	0.005	0	0	0	5
PD.10451	PL.70254	C	40T	7.38Y	122.9	0.00	2.07	1.52	0	11	3	96	0.00	0.0	6.524	0.005	0	0	0	5
PL.70255	PD.10451	C	#4 ACSR	7.38Y	122.9	0.00	2.07	1.52	1	11	3	96	0.00	0.0	6.547	0.024	11	3	5	5
PL.68563	PL.69956	ABC	#1/0 ACSR	7.38Y	122.9	0.01	2.08	22.20	10	471	141	96	0.04	0.0	6.553	0.034	0	0	1	95
PL.68564	PL.68563	ABC	#1/0 ACSR	7.37Y	122.9	0.02	2.09	22.19	10	470	141	96	0.05	0.0	6.590	0.037	1	0	1	94
PL.70256	PL.68564	A	#1/0 ACSR	7.37Y	122.9	0.00	2.09	6.36	3	45	12	97	0.00	0.0	6.595	0.005	0	0	0	11
PD.10452	PL.70256	A	40T	7.37Y	122.9	0.00	2.09	6.36	0	45	12	97	0.00	0.0	6.595	0.005	0	0	0	11
PL.70257	PD.10452	A	#1/0 ACSR	7.37Y	122.9	0.02	2.11	6.36	3	45	12	97	0.00	0.0	6.700	0.105	0	0	0	11
PL.68556	PL.70257	A	#1/0 ACSR	7.37Y	122.9	0.01	2.12	4.45	2	32	8	97	0.00	0.0	6.757	0.057	2	1	2	9
PL.68557	PL.68556	A	#1/0 ACSR	7.37Y	122.9	0.00	2.12	4.12	2	29	8	96	0.00	0.0	6.806	0.049	0	0	0	7
PL.69777	PL.68557	A	6 A (CWC)	7.37Y	122.9	0.02	2.14	2.86	2	20	5	97	0.00	0.0	6.971	0.164	0	0	2	6

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Balanced Voltage Drop Report
Source: Tyner

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.69778	PL.69777	A	6 A (CWC)	7.37Y	122.8	0.02	2.16	2.86	2	20	5	97	0.00	0.0	7.125	0.154	0	0	0	4
PL.70014	PL.69778	A	6 A (CWC)	7.37Y	122.8	0.02	2.18	2.86	2	20	5	97	0.00	0.0	7.272	0.147	0	0	0	4
PL.70015	PL.70014	A	6 A (CWC)	7.37Y	122.8	0.01	2.20	2.86	2	20	5	97	0.00	0.0	7.379	0.107	0	0	0	4
PL.70046	PL.70015	A	6 A (CWC)	7.37Y	122.8	0.02	2.21	2.86	2	20	5	97	0.00	0.0	7.504	0.126	0	0	0	4
PL.69779	PL.70046	A	6 A (CWC)	7.37Y	122.8	0.01	2.22	1.43	1	10	3	96	0.00	0.0	7.583	0.079	0	0	0	2
PL.70016	PL.69779	A	6 A (CWC)	7.37Y	122.8	0.01	2.22	1.43	1	10	3	96	0.00	0.0	7.712	0.129	7	2	1	2
PL.69780	PL.70016	A	6 A (CWC)	7.37Y	122.8	0.00	2.22	0.38	0	3	1	95	0.00	0.0	7.852	0.139	0	0	0	1
PL.70017	PL.69780	A	6 A (CWC)	7.37Y	122.8	0.00	2.23	0.38	0	3	1	95	0.00	0.0	7.937	0.086	3	1	1	1
PL.70070	PL.70046	A	#4 ACSR	7.37Y	122.8	0.01	2.22	1.43	1	10	3	96	0.00	0.0	7.591	0.087	0	0	1	2
PL.68555	PL.70070	A	#4 ACSR	7.37Y	122.8	0.00	2.22	1.38	1	10	3	96	0.00	0.0	7.650	0.059	10	3	1	1
PL.69776	PL.68557	A	#1/0 ACSR	7.37Y	122.9	0.00	2.12	1.26	1	9	2	98	0.00	0.0	6.856	0.050	9	2	1	1
PL.68558	PL.70257	A	#1/0 ACSR	7.37Y	122.9	0.00	2.11	1.90	1	14	4	96	0.00	0.0	6.739	0.040	11	3	1	2
PL.68559	PL.68558	A	#1/0 ACSR	7.37Y	122.9	0.00	2.11	0.40	0	3	1	95	0.00	0.0	6.758	0.019	3	1	1	1
PL.68561	PL.68564	ABC	#1/0 ACSR	7.37Y	122.9	0.02	2.11	19.77	9	418	127	96	0.06	0.0	6.645	0.055	5	1	1	81
PL.68562	PL.68561	ABC	#1/0 ACSR	7.37Y	122.8	0.06	2.17	19.53	8	413	126	96	0.16	0.0	6.804	0.160	0	0	0	80
PL.69957	PL.68562	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.19	18.99	8	402	122	96	0.05	0.0	6.855	0.050	0	0	0	77
PL.69782	PL.69957	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.21	18.99	8	402	122	96	0.06	0.0	6.920	0.066	1	0	1	77
PL.69958	PL.69782	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.22	7.44	3	159	42	97	0.01	0.0	7.021	0.101	0	0	0	30
PL.70246	PL.69958	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.25	7.44	3	159	42	97	0.02	0.0	7.183	0.162	0	0	0	30
PL.70247	PL.70246	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.25	7.44	3	159	42	97	0.00	0.0	7.187	0.004	19	5	5	30
PL.70248	PL.70247	A	#4 ACSR	7.37Y	122.8	0.00	2.25	6.23	5	44	12	96	0.00	0.0	7.192	0.005	0	0	0	7
PD.10448	PL.70248	A	15T	7.37Y	122.8	0.00	2.25	6.23	0	44	12	96	0.00	0.0	7.192	0.005	0	0	0	7
PL.70249	PD.10448	A	#4 ACSR	7.36Y	122.7	0.05	2.29	6.23	5	44	12	96	0.02	0.0	7.360	0.168	0	0	0	7
PL.69793	PL.70249	A	#4 ACSR	7.36Y	122.7	0.03	2.32	6.23	5	44	12	96	0.01	0.0	7.465	0.105	0	0	0	7
PL.70065	PL.69793	A	#4 ACSR	7.36Y	122.6	0.03	2.35	6.23	5	44	12	96	0.01	0.0	7.565	0.100	2	1	1	7
PL.70066	PL.70065	A	#4 ACSR	7.36Y	122.6	0.01	2.36	5.91	5	42	11	97	0.00	0.0	7.601	0.036	0	0	0	6
PL.70064	PL.70066	A	#4 ACSR	7.36Y	122.6	0.01	2.37	5.91	5	42	11	97	0.00	0.0	7.656	0.054	0	0	1	6
PL.69794	PL.70064	A	#4 ACSR	7.36Y	122.6	0.03	2.40	5.91	5	42	11	97	0.01	0.0	7.770	0.114	0	0	0	5
PL.70020	PL.69794	A	#4 ACSR	7.35Y	122.6	0.04	2.44	5.91	5	42	11	97	0.01	0.0	7.908	0.138	0	0	0	5
PL.70068	PL.70020	A	#4 ACSR	7.35Y	122.6	0.00	2.44	1.22	1	9	2	98	0.00	0.0	7.993	0.086	7	2	1	2
PL.70069	PL.70068	A	#4 ACSR	7.35Y	122.6	0.00	2.44	0.22	0	2	0	100	0.00	0.0	8.131	0.138	2	0	1	1

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Balanced Voltage Drop Report
Source: Tyner

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.70058	PL.70020	A	#4 ACSR	7.35Y	122.5	0.02	2.46	4.69	4	33	9	96	0.00	0.0	8.003	0.095	11	3	1	3
PL.70059	PL.70058	A	#4 ACSR	7.35Y	122.5	0.01	2.46	3.15	2	22	6	96	0.00	0.0	8.047	0.044	0	0	0	2
PL.69797	PL.70059	A	#4 ACSR	7.35Y	122.5	0.01	2.47	3.15	2	22	6	96	0.00	0.0	8.094	0.048	0	0	0	2
PL.70044	PL.69797	A	#4 ACSR	7.35Y	122.5	0.02	2.49	3.15	2	22	6	96	0.00	0.0	8.215	0.121	0	0	0	2
PL.69798	PL.70044	A	#4 ACSR	7.35Y	122.5	0.01	2.50	3.15	2	22	6	96	0.00	0.0	8.278	0.062	0	0	0	2
PL.69795	PL.69798	A	#1/0 ACSR	7.35Y	122.5	0.00	2.50	1.86	1	13	3	97	0.00	0.0	8.322	0.045	13	3	1	1
PL.69796	PL.69798	A	#4 ACSR	7.35Y	122.5	0.00	2.50	1.29	1	9	2	98	0.00	0.0	8.396	0.118	9	2	1	1
PL.70062	PL.70247	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.25	4.46	2	95	25	97	0.00	0.0	7.227	0.040	6	2	1	18
PL.70063	PL.70062	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.25	4.19	2	89	24	97	0.00	0.0	7.278	0.051	6	2	1	17
PL.70400	PL.70063	A	#4 ACSR	7.36Y	122.7	0.00	2.26	11.71	9	83	22	97	0.00	0.0	7.282	0.005	0	0	0	16
PD.10527	PL.70400	A	20T	7.36Y	122.7	0.00	2.26	11.71	0	83	22	97	0.00	0.0	7.282	0.005	0	0	0	16
PL.70401	PD.10527	A	#4 ACSR	7.36Y	122.7	0.03	2.28	11.71	9	83	22	97	0.02	0.0	7.335	0.052	5	1	1	16
PL.69800	PL.70401	A	#4 ACSR	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	7.426	0.092	0	0	0	0
PL.69799	PL.70401	A	6 A (CWC)	7.36Y	122.7	0.04	2.32	11.03	8	79	21	97	0.02	0.0	7.417	0.083	2	0	1	15
PL.69801	PL.69799	A	6 A (CWC)	7.36Y	122.6	0.03	2.35	10.78	8	77	20	97	0.02	0.0	7.480	0.062	0	0	0	14
PL.69802	PL.69801	A	#2 ACSR	7.36Y	122.6	0.00	2.35	1.01	1	7	2	96	0.00	0.0	7.515	0.035	7	2	2	2
PL.70060	PL.69801	A	6 A (CWC)	7.36Y	122.6	0.01	2.36	6.26	4	45	12	97	0.00	0.0	7.520	0.040	5	1	1	9
PL.70061	PL.70060	A	6 A (CWC)	7.36Y	122.6	0.02	2.39	5.61	4	40	11	96	0.01	0.0	7.613	0.094	2	1	1	8
PL.69805	PL.70061	A	#1/0 ACSR	7.36Y	122.6	0.00	2.39	1.63	1	12	3	97	0.00	0.0	7.665	0.052	12	3	2	2
PL.69806	PL.70061	A	6 A (CWC)	7.36Y	122.6	0.02	2.41	3.64	3	26	7	97	0.00	0.0	7.737	0.123	2	1	1	5
PL.69808	PL.69806	A	6 A (CWC)	7.35Y	122.6	0.02	2.43	3.35	2	24	6	97	0.00	0.0	7.853	0.116	0	0	0	4
PL.69809	PL.69808	A	6 A (CWC)	7.35Y	122.6	0.00	2.43	1.90	1	13	4	96	0.00	0.0	7.910	0.057	6	1	1	2
PL.69810	PL.69809	A	#1/0 ACSR	7.35Y	122.6	0.00	2.43	1.11	0	8	2	97	0.00	0.0	7.944	0.034	8	2	1	1
PL.69965	PL.69808	A	6 A (CWC)	7.35Y	122.6	0.00	2.43	1.45	1	10	3	96	0.00	0.0	7.943	0.090	10	3	2	2
PL.69807	PL.69806	A	6 A (CWC)	7.36Y	122.6	0.00	2.41	0.00	0	0	0	100	0.00	0.0	7.792	0.055	0	0	0	0
PL.69803	PL.69801	A	#2 ACSR	7.36Y	122.6	0.00	2.36	3.52	2	25	7	96	0.00	0.0	7.534	0.054	19	5	2	3
PL.69804	PL.69803	A	#2 ACSR	7.36Y	122.6	0.00	2.36	0.83	0	6	2	95	0.00	0.0	7.579	0.045	6	2	1	1
PL.70420	PL.69782	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.21	11.53	5	242	80	95	0.00	0.0	6.925	0.005	0	0	0	46
PD.10540	PL.70420	ABC	20T	7.37Y	122.8	0.00	2.21	11.53	0	242	80	95	0.00	0.0	6.925	0.005	0	0	0	46
PL.70421	PD.10540	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.22	11.53	5	242	80	95	0.01	0.0	6.951	0.027	2	0	1	46
PL.70067	PL.70421	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.23	11.45	5	240	80	95	0.02	0.0	6.996	0.044	0	0	0	45

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Balanced Voltage Drop Report
Source: Tyner

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.70250	PL.70067	A	#1/0 ACSR	7.37Y	122.8	0.00	2.23	0.00	0	0	0	100	0.00	0.0	7.000	0.005	0	0	0	0
PD.10449	PL.70250	A	10T	7.37Y	122.8	0.00	2.23	0.00	0	0	0	100	0.00	0.0	7.000	0.005	0	0	0	0
PL.70251	PD.10449	A	#1/0 ACSR	7.37Y	122.8	0.00	2.23	0.00	0	0	0	100	0.00	0.0	7.030	0.030	0	0	0	0
PL.69783	PL.70067	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.25	11.45	5	240	80	95	0.03	0.0	7.086	0.090	0	0	0	45
PL.70018	PL.69783	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.27	11.45	5	240	79	95	0.04	0.0	7.193	0.107	0	0	0	45
PL.69784	PL.70018	C	#2 ACSR	7.36Y	122.7	0.00	2.27	2.08	1	15	4	97	0.00	0.0	7.198	0.005	0	0	0	3
PD.10454	PL.69784	C	15T	7.36Y	122.7	0.00	2.27	2.08	0	15	4	97	0.00	0.0	7.198	0.005	0	0	0	3
PL.69785	PD.10454	C	#1/0 ACSR	7.36Y	122.7	0.00	2.27	1.46	1	10	3	96	0.00	0.0	7.247	0.049	10	3	1	1
PL.69959	PD.10454	C	#2 ACSR	7.36Y	122.7	0.00	2.27	0.62	0	4	1	97	0.00	0.0	7.219	0.021	4	1	2	2
PL.68585	PL.70018	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.29	10.76	5	225	76	95	0.03	0.0	7.293	0.100	6	2	1	42
PL.68586	PL.68585	ABC	#1/0 ACSR	7.36Y	122.7	0.03	2.31	10.48	5	219	74	95	0.04	0.0	7.423	0.130	0	0	0	41
PL.69786	PL.68586	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.32	5.53	2	118	31	97	0.00	0.0	7.481	0.058	0	0	0	31
PL.70386	PL.69786	C	6 A (CWC)	7.36Y	122.7	0.00	2.32	15.82	11	113	30	97	0.00	0.0	7.485	0.004	0	0	0	30
PD.10520	PL.70386	C	30T	7.36Y	122.7	0.00	2.32	15.82	0	113	30	97	0.00	0.0	7.485	0.004	0	0	0	30
PL.70387	PD.10520	C	6 A (CWC)	7.36Y	122.6	0.08	2.40	15.82	11	113	30	97	0.07	0.1	7.595	0.110	0	0	0	30
PL.70019	PL.70387	C	6 A (CWC)	7.35Y	122.5	0.12	2.52	15.82	11	112	30	97	0.10	0.1	7.768	0.173	9	2	2	30
PL.70076	PL.70019	C	6 A (CWC)	7.34Y	122.4	0.07	2.59	11.55	8	82	22	97	0.04	0.0	7.911	0.143	12	3	2	23
PL.70077	PL.70076	C	6 A (CWC)	7.34Y	122.4	0.05	2.64	9.83	7	70	19	97	0.03	0.0	8.018	0.107	0	0	0	21
PL.68543	PL.70077	C	#4 ACSR	7.34Y	122.4	0.00	2.64	2.21	2	16	4	97	0.00	0.0	8.078	0.061	9	2	2	4
PL.68546	PL.68543	C	#4 ACSR	7.34Y	122.4	0.00	2.64	0.95	1	7	2	96	0.00	0.0	8.139	0.061	7	2	2	2
PL.69962	PL.68543	C	#4 ACSR	7.34Y	122.4	0.00	2.64	0.00	0	0	0	100	0.00	0.0	8.128	0.050	0	0	0	0
PL.68544	PL.70077	C	6 A (CWC)	7.34Y	122.3	0.04	2.67	7.62	5	54	14	97	0.01	0.0	8.119	0.102	0	0	0	17
PL.68547	PL.68544	C	6 A (CWC)	7.34Y	122.3	0.03	2.71	7.62	5	54	14	97	0.01	0.0	8.219	0.100	0	0	0	17
PL.70078	PL.68547	C	6 A (CWC)	7.34Y	122.3	0.04	2.74	7.62	5	54	14	97	0.01	0.0	8.322	0.104	2	1	1	17
PL.70079	PL.70078	C	6 A (CWC)	7.33Y	122.2	0.03	2.78	7.30	5	52	14	97	0.01	0.0	8.427	0.105	0	0	0	16
PL.68548	PL.70079	C	6 A (CWC)	7.33Y	122.2	0.04	2.82	7.30	5	52	14	97	0.02	0.0	8.549	0.122	0	0	0	16
PL.68551	PL.68548	C	#4 ACSR	7.33Y	122.1	0.05	2.86	7.26	6	51	14	96	0.02	0.0	8.691	0.142	1	0	1	15
PL.68550	PL.68551	C	#4 ACSR	7.32Y	122.1	0.06	2.92	7.10	5	50	13	97	0.02	0.0	8.873	0.182	0	0	0	14
PL.68553	PL.68550	C	#4 ACSR	7.32Y	122.1	0.01	2.93	6.27	5	44	12	96	0.00	0.0	8.903	0.031	0	0	0	13
PL.68554	PL.68553	C	#4 ACSR	7.32Y	122.1	0.00	2.93	0.30	0	2	1	89	0.00	0.0	8.920	0.017	0	0	0	2
PL.69789	PL.68554	C	#2 ACSR	7.32Y	122.1	0.00	2.93	0.30	0	2	1	89	0.00	0.0	8.952	0.031	2	1	2	2

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Balanced Voltage Drop Report
Source: Tyner

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.69963	PL.68553	C	#4 ACSR	7.32Y	122.0	0.02	2.95	5.97	5	42	11	97	0.01	0.0	8.987	0.084	0	0	1	11
PL.69790	PL.69963	C	#4 ACSR	7.32Y	122.0	0.00	2.95	2.00	2	14	4	96	0.00	0.0	9.008	0.021	14	4	2	2
PL.70074	PL.69963	C	#4 ACSR	7.32Y	122.0	0.01	2.96	3.97	3	28	7	97	0.00	0.0	9.044	0.056	15	4	2	8
PL.70075	PL.70074	C	#4 ACSR	7.32Y	122.0	0.00	2.96	1.84	1	13	3	97	0.00	0.0	9.080	0.036	7	2	4	6
PL.69791	PL.70075	C	#4 ACSR	7.32Y	122.0	0.00	2.96	0.86	1	6	2	95	0.00	0.0	9.097	0.018	0	0	0	2
PL.69792	PL.69791	C	#4 ACSR	7.32Y	122.0	0.00	2.96	0.63	0	4	1	97	0.00	0.0	9.149	0.052	0	0	0	1
PL.70072	PL.69792	C	#4 ACSR	7.32Y	122.0	0.00	2.97	0.63	0	4	1	97	0.00	0.0	9.194	0.045	4	1	1	1
PL.70073	PL.70072	C	#4 ACSR	7.32Y	122.0	0.00	2.97	0.00	0	0	0	100	0.00	0.0	9.232	0.038	0	0	0	0
PL.69964	PL.69791	C	#4 ACSR	7.32Y	122.0	0.00	2.96	0.23	0	2	0	100	0.00	0.0	9.119	0.022	2	0	1	1
PL.68552	PL.68550	C	#4 ACSR	7.32Y	122.1	0.00	2.92	0.83	1	6	2	95	0.00	0.0	8.939	0.066	6	2	1	1
PL.68549	PL.68548	C	#4 ACSR	7.33Y	122.2	0.00	2.82	0.04	0	0	0	100	0.00	0.0	8.599	0.050	0	0	1	1
PL.68591	PL.70019	C	#4 ACSR	7.35Y	122.5	0.00	2.53	3.06	2	22	6	96	0.00	0.0	7.809	0.042	9	2	1	5
PL.68592	PL.68591	C	#4 ACSR	7.35Y	122.5	0.00	2.53	1.77	1	13	3	97	0.00	0.0	7.850	0.041	4	1	1	4
PL.68593	PL.68592	C	#4 ACSR	7.35Y	122.5	0.00	2.53	1.20	1	9	2	98	0.00	0.0	7.901	0.051	6	2	2	3
PL.70071	PL.68593	C	#4 ACSR	7.35Y	122.5	0.00	2.53	0.38	0	3	1	95	0.00	0.0	7.950	0.049	3	1	1	1
PL.70402	PL.69786	A	#2 ACSR	7.36Y	122.7	0.00	2.32	0.76	0	5	1	98	0.00	0.0	7.485	0.004	0	0	0	1
PD.10528	PL.70402	A	10T	7.36Y	122.7	0.00	2.32	0.76	0	5	1	98	0.00	0.0	7.485	0.004	0	0	0	1
PL.70403	PD.10528	A	#2 ACSR	7.36Y	122.7	0.00	2.32	0.76	0	5	1	98	0.00	0.0	7.500	0.015	5	1	1	1
PL.68589	PL.68586	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.33	3.60	2	72	35	90	0.01	0.0	7.587	0.164	0	0	0	2
PL.68590	PL.68589	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.33	3.60	2	72	35	90	0.00	0.0	7.680	0.093	0	0	0	2
PL.70422	PL.68590	ABC	1/0 AL URD	7.36Y	122.7	0.00	2.33	3.60	2	72	35	90	0.00	0.0	7.685	0.005	0	0	0	2
PD.10541	PL.70422	ABC	12T	7.36Y	122.7	0.00	2.33	3.60	0	72	35	90	0.00	0.0	7.685	0.005	0	0	0	2
PL.70423	PD.10541	ABC	1/0 AL URD	7.36Y	122.7	0.00	2.33	3.60	2	72	35	90	0.00	0.0	7.717	0.032	72	35	2	2
PL.70260	PL.68586	A	#2 ACSR	7.36Y	122.7	0.00	2.31	4.21	2	30	8	97	0.00	0.0	7.428	0.005	0	0	0	8
PD.10455	PL.70260	A	15T	7.36Y	122.7	0.00	2.31	4.21	0	30	8	97	0.00	0.0	7.428	0.005	0	0	0	8
PL.70261	PD.10455	A	#2 ACSR	7.36Y	122.7	0.00	2.32	4.21	2	30	8	97	0.00	0.0	7.446	0.018	0	0	0	8
PL.69787	PL.70261	A	#2 ACSR	7.36Y	122.7	0.00	2.32	1.62	1	11	3	96	0.00	0.0	7.518	0.072	11	3	2	2
PL.69961	PL.70261	A	#2 ACSR	7.36Y	122.7	0.00	2.32	1.53	1	11	3	96	0.00	0.0	7.483	0.037	11	3	2	2
PL.68587	PL.70261	A	#2 ACSR	7.36Y	122.7	0.00	2.32	1.06	1	8	2	97	0.00	0.0	7.486	0.041	2	1	1	4
PL.68588	PL.68587	A	#2 ACSR	7.36Y	122.7	0.00	2.32	0.79	0	6	1	99	0.00	0.0	7.535	0.049	0	0	2	3
PL.69788	PL.68588	A	#2 ACSR	7.36Y	122.7	0.00	2.32	0.79	0	6	1	99	0.00	0.0	7.571	0.036	0	0	0	1

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Balanced Voltage Drop Report
Source: Tyner

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.69960	PL.69788	A	#2 ACSR	7.36Y	122.7	0.00	2.32	0.79	0	6	1	99	0.00	0.0	7.591	0.020	6	1	1	1
PL.68542	PL.69788	A	#2 ACSR	7.36Y	122.7	0.00	2.32	0.00	0	0	0	100	0.00	0.0	7.610	0.039	0	0	0	0
PL.70384	PL.68562	C	#1/0 ACSR	7.37Y	122.8	0.00	2.17	0.03	0	0	0	100	0.00	0.0	6.809	0.005	0	0	0	1
PD.10519	PL.70384	C	15T	7.37Y	122.8	0.00	2.17	0.03	0	0	0	100	0.00	0.0	6.809	0.005	0	0	0	1
PL.70385	PD.10519	C	#1/0 ACSR	7.37Y	122.8	0.00	2.17	0.03	0	0	0	100	0.00	0.0	6.854	0.045	0	0	1	1
PL.70252	PL.68562	A	#4 ACSR	7.37Y	122.8	0.00	2.17	1.58	1	11	3	96	0.00	0.0	6.809	0.005	0	0	0	2
PD.10450	PL.70252	A	40T	7.37Y	122.8	0.00	2.17	1.58	0	11	3	96	0.00	0.0	6.809	0.005	0	0	0	2
PL.70253	PD.10450	A	#4 ACSR	7.37Y	122.8	0.00	2.17	1.58	1	11	3	96	0.00	0.0	6.815	0.006	0	0	0	2
PL.70049	PL.70253	A	#4 ACSR	7.37Y	122.8	0.00	2.17	0.91	1	7	2	96	0.00	0.0	6.845	0.030	7	2	1	1
PL.69781	PL.70253	A	#2 ACSR	7.37Y	122.8	0.00	2.17	0.67	0	5	1	98	0.00	0.0	6.839	0.024	5	1	1	1
PL.70382	PL.68564	A	#1/0 ACSR	7.37Y	122.9	0.00	2.09	0.71	0	5	1	98	0.00	0.0	6.595	0.005	0	0	0	1
PD.10518	PL.70382	A	40T	7.37Y	122.9	0.00	2.09	0.71	0	5	1	98	0.00	0.0	6.595	0.005	0	0	0	1
PL.70383	PD.10518	A	#1/0 ACSR	7.37Y	122.9	0.00	2.09	0.71	0	5	1	98	0.00	0.0	6.624	0.029	0	0	0	1
PL.68560	PL.70383	A	#1/0 ACSR	7.37Y	122.9	0.00	2.10	0.71	0	5	1	98	0.00	0.0	6.683	0.059	5	1	1	1
PL.70268	PL.69954	A	#4 ACSR	7.38Y	123.1	0.00	1.95	0.81	1	6	2	95	0.00	0.0	6.242	0.005	0	0	0	1
PD.10459	PL.70268	A	40T	7.38Y	123.1	0.00	1.95	0.81	0	6	2	95	0.00	0.0	6.242	0.005	0	0	0	1
PL.70269	PD.10459	A	#4 ACSR	7.38Y	123.1	0.00	1.95	0.81	1	6	2	95	0.00	0.0	6.297	0.055	6	2	1	1
PL.70378	PL.69954	C	#2 ACSR	7.38Y	123.1	0.00	1.95	1.00	1	7	2	96	0.00	0.0	6.242	0.005	0	0	0	2
PD.10516	PL.70378	C	40T	7.38Y	123.1	0.00	1.95	1.00	0	7	2	96	0.00	0.0	6.242	0.005	0	0	0	2
PL.70379	PD.10516	C	#2 ACSR	7.38Y	123.1	0.00	1.95	1.00	1	7	2	96	0.00	0.0	6.256	0.014	7	2	2	2
PL.70404	PL.69952	A	#4 ACSR	7.43Y	123.8	0.00	1.21	1.97	2	14	4	96	0.00	0.0	4.710	0.004	0	0	0	2
PD.10529	PL.70404	A	40T	7.43Y	123.8	0.00	1.21	1.97	0	14	4	96	0.00	0.0	4.710	0.004	0	0	0	2
PL.70405	PD.10529	A	#4 ACSR	7.43Y	123.8	0.00	1.21	1.97	2	14	4	96	0.00	0.0	4.735	0.025	14	4	2	2
PL.69953	PL.69748	ABC	#4 ACSR	7.43Y	123.8	0.00	1.18	3.97	3	81	37	91	0.00	0.0	4.654	0.005	0	0	0	4
PD.10539	PL.69953	ABC	30T	7.43Y	123.8	0.00	1.18	3.97	0	81	37	91	0.00	0.0	4.654	0.005	0	0	0	4
PL.69749	PD.10539	A	#2 ACSR	7.43Y	123.8	0.00	1.18	1.50	1	11	3	96	0.00	0.0	4.708	0.054	11	3	1	1
PL.69750	PD.10539	ABC	#4 ACSR	7.43Y	123.8	0.00	1.19	3.48	3	70	34	90	0.00	0.0	4.682	0.028	0	0	1	3
PL.70088	PL.69750	ABC	#4 ACSR	7.43Y	123.8	0.01	1.19	3.45	3	69	34	90	0.01	0.0	4.747	0.065	0	0	1	2
PL.70087	PL.70088	ABC	#4 ACSR	7.43Y	123.8	0.00	1.19	3.45	3	69	34	90	0.00	0.0	4.754	0.007	69	34	1	1
PL.70322	PL.70321	A	#1/0 ACSR	7.28Y	121.3	0.00	3.70	1.65	1	12	3	97	0.00	0.0	3.783	0.005	0	0	0	2
PD.10486	PL.70322	A	25T	7.28Y	121.3	0.00	3.70	1.65	0	12	3	97	0.00	0.0	3.783	0.005	0	0	0	2

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

Balanced Voltage Drop Report
Source: Tyner

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.70323	PD.10486	A	#1/0 ACSR	7.28Y	121.3	0.00	3.70	1.65	1	12	3	97	0.00	0.0	3.795	0.012	12	3	2	2
PL.70318	PL.69947	C	#1/0 ACSR	7.28Y	121.4	0.00	3.62	1.64	1	12	3	97	0.00	0.0	3.672	0.005	0	0	0	1
PD.10485	PL.70318	C	25T	7.28Y	121.4	0.00	3.62	1.64	0	12	3	97	0.00	0.0	3.672	0.005	0	0	0	1
PL.70319	PD.10485	C	#1/0 ACSR	7.28Y	121.4	0.00	3.62	1.64	1	12	3	97	0.00	0.0	3.741	0.070	12	3	1	1
PL.70324	PL.69939	C	#1/0 ACSR	7.30Y	121.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	3.384	0.004	0	0	0	0
PD.10487	PL.70324	C	65T	7.30Y	121.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	3.384	0.004	0	0	0	0
PL.70325	PD.10487	C	#1/0 ACSR	7.30Y	121.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	3.456	0.073	0	0	0	0
PL.70326	PL.69288	C	#4 ACSR	7.30Y	121.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	3.343	0.005	0	0	0	3
PD.10488	PL.70326	C	20T	7.30Y	121.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	3.343	0.005	0	0	0	3
PL.70327	PD.10488	C	#4 ACSR	7.30Y	121.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	3.366	0.023	0	0	3	3
PL.70372	PL.69720	B	#2 ACSR	7.31Y	121.8	0.00	3.22	10.98	6	78	21	97	0.00	0.0	3.146	0.005	0	0	0	16
PD.10513	PL.70372	B	65T	7.31Y	121.8	0.00	3.22	10.98	0	78	21	97	0.00	0.0	3.146	0.005	0	0	0	16
PL.70373	PD.10513	B	#2 ACSR	7.31Y	121.8	0.01	3.23	10.98	6	78	21	97	0.00	0.0	3.171	0.026	6	2	2	16
PL.69301	PL.70373	B	#2 ACSR	7.30Y	121.7	0.02	3.25	10.10	6	71	19	97	0.01	0.0	3.246	0.074	0	0	0	14
PL.69302	PL.69301	B	#2 ACSR	7.30Y	121.7	0.02	3.27	10.10	6	71	19	97	0.01	0.0	3.320	0.074	0	0	0	14
PL.69304	PL.69302	B	#1/0 ACSR	7.30Y	121.7	0.00	3.28	2.26	1	16	4	97	0.00	0.0	3.360	0.040	0	0	1	4
PL.69305	PL.69304	B	#1/0 ACSR	7.30Y	121.7	0.00	3.28	2.26	1	16	4	97	0.00	0.0	3.393	0.033	7	2	1	3
PL.69303	PL.69305	B	#1/0 ACSR	7.30Y	121.7	0.00	3.28	1.22	1	9	2	98	0.00	0.0	3.429	0.036	9	2	2	2
PL.69721	PL.69302	B	#2 ACSR	7.30Y	121.7	0.03	3.30	7.85	4	55	15	96	0.01	0.0	3.438	0.118	0	0	0	10
PL.69938	PL.69721	B	#2 ACSR	7.30Y	121.7	0.00	3.31	3.80	2	27	7	97	0.00	0.0	3.479	0.041	0	0	0	4
PL.69311	PL.69938	B	#2 ACSR	7.30Y	121.7	0.01	3.31	3.80	2	27	7	97	0.00	0.0	3.535	0.056	5	1	2	4
PL.69312	PL.69311	B	#2 ACSR	7.30Y	121.7	0.00	3.32	3.02	2	21	6	96	0.00	0.0	3.592	0.057	10	3	1	2
PL.69722	PL.69312	B	#2 ACSR	7.30Y	121.7	0.00	3.32	1.66	1	12	3	97	0.00	0.0	3.662	0.070	12	3	1	1
PL.69309	PL.69721	B	#2 ACSR	7.30Y	121.7	0.00	3.31	4.05	2	29	8	96	0.00	0.0	3.478	0.040	5	1	1	6
PL.69310	PL.69309	B	#2 ACSR	7.30Y	121.7	0.00	3.31	3.37	2	24	6	97	0.00	0.0	3.495	0.017	5	1	1	5
PL.69306	PL.69310	B	#2 ACSR	7.30Y	121.7	0.00	3.31	2.70	2	19	5	97	0.00	0.0	3.525	0.030	6	2	2	4
PL.69307	PL.69306	B	#2 ACSR	7.30Y	121.7	0.00	3.31	1.88	1	13	4	96	0.00	0.0	3.562	0.037	8	2	1	2
PL.69308	PL.69307	B	#2 ACSR	7.30Y	121.7	0.00	3.31	0.75	0	5	1	98	0.00	0.0	3.587	0.024	5	1	1	1
PL.69924	PL.69686	ABC	336 MCM AC	7.34Y	122.4	0.00	2.60	0.28	0	6	2	95	0.00	0.0	2.452	0.050	6	2	1	1
PL.70430	PL.70146	B	6 A (CWC)	7.34Y	122.4	0.01	2.60	42.68	30	303	81	97	0.01	0.0	2.396	0.003	0	0	0	53
PD.10546	PL.70430	B	70L	7.34Y	122.4	0.00	2.60	42.68	61	303	81	97	0.00	0.0	2.396	0.003	0	0	0	53

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: Tyner

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.70431	PD.10546	B	6 A (CWC)	7.33Y	122.2	0.18	2.77	42.68	30	303	81	97	0.40	0.1	2.488	0.092	5	1	2	53
PL.70144	PL.70431	B	6 A (CWC)	7.32Y	122.1	0.15	2.92	42.03	30	298	79	97	0.32	0.1	2.565	0.077	5	1	1	51
PL.70143	PL.70144	B	6 A (CWC)	7.32Y	122.0	0.04	2.96	41.26	29	292	78	97	0.10	0.0	2.589	0.024	0	0	0	50
PL.69926	PL.70143	B	6 A (CWC)	7.32Y	121.9	0.12	3.08	40.30	29	285	76	97	0.25	0.1	2.652	0.063	0	0	0	49
PL.69927	PL.69926	B	6 A (CWC)	7.31Y	121.8	0.15	3.23	37.48	27	265	71	97	0.30	0.1	2.741	0.088	0	0	0	46
PL.69691	PL.69927	B	#2 ACSR	7.31Y	121.8	0.00	3.23	1.93	1	14	4	96	0.00	0.0	2.801	0.060	14	4	2	2
PL.69689	PL.69927	B	6 A (CWC)	7.30Y	121.7	0.04	3.27	6.17	4	44	12	96	0.01	0.0	2.878	0.138	0	0	0	8
PL.69688	PL.69689	B	6 A (CWC)	7.30Y	121.7	0.00	3.27	1.01	1	7	2	96	0.00	0.0	2.909	0.031	7	2	1	1
PL.69684	PL.69689	B	6 A (CWC)	7.30Y	121.7	0.01	3.28	5.16	4	36	10	96	0.00	0.0	2.934	0.056	7	2	1	7
PL.70047	PL.69684	B	#4 ACSR	7.30Y	121.7	0.00	3.28	0.02	0	0	0	100	0.00	0.0	3.047	0.112	0	0	1	1
PL.70153	PL.69684	B	6 A (CWC)	7.30Y	121.7	0.01	3.29	4.15	3	29	8	96	0.00	0.0	3.002	0.067	4	1	1	5
PL.70154	PL.70153	B	6 A (CWC)	7.30Y	121.7	0.02	3.31	3.65	3	26	7	97	0.00	0.0	3.159	0.157	14	4	2	4
PL.70138	PL.70154	B	6 A (CWC)	7.30Y	121.7	0.01	3.32	1.60	1	11	3	96	0.00	0.0	3.310	0.151	11	3	2	2
PL.70048	PL.69684	B	#4 ACSR	7.30Y	121.7	0.00	3.28	0.00	0	0	0	100	0.00	0.0	2.936	0.002	0	0	0	0
PL.69692	PL.69927	B	6 A (CWC)	7.30Y	121.7	0.08	3.31	29.38	21	207	55	97	0.13	0.1	2.804	0.063	9	2	1	36
PL.69693	PL.69692	B	6 A (CWC)	7.30Y	121.7	0.01	3.32	1.78	1	13	3	97	0.00	0.0	2.923	0.119	9	2	1	2
PL.69694	PL.69693	B	#1/0 ACSR	7.30Y	121.7	0.00	3.32	0.46	0	3	1	95	0.00	0.0	3.052	0.129	3	1	1	1
PL.69928	PL.69692	B	6 A (CWC)	7.29Y	121.5	0.23	3.54	26.34	19	186	49	97	0.32	0.2	2.992	0.188	0	0	0	32
PL.69929	PL.69928	B	6 A (CWC)	7.28Y	121.4	0.10	3.65	22.84	16	161	43	97	0.13	0.1	3.092	0.100	0	0	0	29
PL.69702	PL.69929	B	6 A (CWC)	7.28Y	121.3	0.07	3.72	22.84	16	161	43	97	0.09	0.1	3.164	0.072	0	0	0	29
PL.69931	PL.69702	B	6 A (CWC)	7.27Y	121.2	0.04	3.76	11.23	8	79	21	97	0.02	0.0	3.237	0.073	0	0	0	12
PL.69704	PL.69931	B	6 A (CWC)	7.27Y	121.2	0.00	3.76	1.63	1	11	3	96	0.00	0.0	3.301	0.064	10	3	2	3
PL.69705	PL.69704	B	6 A (CWC)	7.27Y	121.2	0.00	3.76	0.22	0	2	0	100	0.00	0.0	3.371	0.070	2	0	1	1
PL.70168	PL.69931	B	6 A (CWC)	7.27Y	121.2	0.04	3.80	9.59	7	67	18	97	0.02	0.0	3.334	0.097	9	2	2	9
PL.70169	PL.70168	B	6 A (CWC)	7.27Y	121.1	0.07	3.86	8.35	6	59	16	97	0.03	0.1	3.508	0.173	0	0	0	7
PL.69708	PL.70169	B	#2 ACSR	7.27Y	121.1	0.00	3.86	1.36	1	10	3	96	0.00	0.0	3.556	0.049	10	3	1	1
PL.69709	PL.70169	B	#2 ACSR	7.27Y	121.1	0.01	3.87	6.99	4	49	13	97	0.00	0.0	3.546	0.038	0	0	0	6
PL.70173	PL.69709	B	#2 ACSR	7.27Y	121.1	0.01	3.89	6.99	4	49	13	97	0.00	0.0	3.626	0.081	19	5	2	6
PL.69287	PL.70173	B	#2 ACSR	7.27Y	121.1	0.00	3.89	4.25	2	30	8	97	0.00	0.0	3.635	0.008	0	0	0	4
PL.70171	PL.69287	B	#2 ACSR	7.27Y	121.1	0.00	3.89	3.32	2	23	6	97	0.00	0.0	3.685	0.050	6	2	1	3
PL.70172	PL.70171	B	#2 ACSR	7.27Y	121.1	0.01	3.90	2.43	1	17	5	96	0.00	0.0	3.809	0.124	8	2	1	2

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Balanced Voltage Drop Report
Source: Tyner

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.70170	PL.70172	B	#2 ACSR	7.27Y	121.1	0.00	3.90	1.35	1	9	3	95	0.00	0.0	3.886	0.077	9	3	1	1
PL.69932	PL.69287	B	#2 ACSR	7.27Y	121.1	0.00	3.89	0.93	1	7	2	96	0.00	0.0	3.685	0.050	7	2	1	1
PL.69703	PL.69702	B	#4 ACSR	7.27Y	121.2	0.03	3.75	11.61	9	82	22	97	0.02	0.0	3.229	0.065	0	0	0	17
PL.69706	PL.69703	B	#1/0 ACSR	7.27Y	121.2	0.03	3.78	11.61	5	82	22	97	0.01	0.0	3.333	0.103	7	2	1	17
PL.70164	PL.69706	B	#1/0 ACSR	7.27Y	121.2	0.01	3.79	8.45	4	59	16	97	0.00	0.0	3.367	0.035	11	3	2	13
PL.70165	PL.70164	B	#1/0 ACSR	7.27Y	121.2	0.01	3.79	6.96	3	49	13	97	0.00	0.0	3.412	0.045	10	3	3	11
PL.70163	PL.70165	B	#1/0 ACSR	7.27Y	121.2	0.00	3.80	5.49	2	39	10	97	0.00	0.0	3.437	0.025	4	1	1	8
PL.70159	PL.70163	B	#1/0 ACSR	7.27Y	121.2	0.01	3.80	3.93	2	28	7	97	0.00	0.0	3.514	0.077	8	2	1	6
PL.70160	PL.70159	B	#1/0 ACSR	7.27Y	121.2	0.00	3.80	2.74	1	19	5	97	0.00	0.0	3.524	0.011	6	2	1	5
PL.70161	PL.70160	B	#1/0 ACSR	7.27Y	121.2	0.00	3.80	1.88	1	13	4	96	0.00	0.0	3.567	0.043	3	1	2	4
PL.70162	PL.70161	B	#1/0 ACSR	7.27Y	121.2	0.00	3.80	1.39	1	10	3	96	0.00	0.0	3.622	0.055	10	3	2	2
PL.69707	PL.70163	B	#1/0 ACSR	7.27Y	121.2	0.00	3.80	0.96	0	7	2	96	0.00	0.0	3.463	0.026	7	2	1	1
PL.70166	PL.69706	B	#1/0 ACSR	7.27Y	121.2	0.00	3.78	2.20	1	15	4	97	0.00	0.0	3.357	0.025	15	4	3	3
PL.70167	PL.70166	B	#1/0 ACSR	7.27Y	121.2	0.00	3.78	0.00	0	0	0	100	0.00	0.0	3.385	0.028	0	0	0	0
PL.70157	PL.69928	B	6 A (CWC)	7.29Y	121.4	0.01	3.55	3.50	2	25	7	96	0.00	0.0	3.078	0.086	15	4	1	3
PL.70158	PL.70157	B	6 A (CWC)	7.29Y	121.4	0.01	3.56	1.35	1	10	3	96	0.00	0.0	3.177	0.099	0	0	0	2
PL.69696	PL.70158	B	#4 ACSR	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	3.241	0.064	0	0	0	0
PL.69697	PL.70158	B	6 A (CWC)	7.29Y	121.4	0.01	3.56	1.35	1	10	3	96	0.00	0.0	3.279	0.103	0	0	0	2
PL.70155	PL.69697	B	6 A (CWC)	7.29Y	121.4	0.01	3.57	1.35	1	10	3	96	0.00	0.0	3.376	0.097	3	1	1	2
PL.70156	PL.70155	B	6 A (CWC)	7.29Y	121.4	0.00	3.57	0.96	1	7	2	96	0.00	0.0	3.430	0.053	0	0	0	1
PL.69699	PL.70156	B	6 A (CWC)	7.29Y	121.4	0.00	3.57	0.96	1	7	2	96	0.00	0.0	3.459	0.030	0	0	0	1
PL.69930	PL.69699	B	6 A (CWC)	7.29Y	121.4	0.00	3.57	0.00	0	0	0	100	0.00	0.0	3.496	0.037	0	0	0	0
PL.69701	PL.69930	B	#4 ACSR	7.29Y	121.4	0.00	3.57	0.00	0	0	0	100	0.00	0.0	3.595	0.099	0	0	0	0
PL.69698	PL.69699	B	6 A (CWC)	7.29Y	121.4	0.00	3.57	0.96	1	7	2	96	0.00	0.0	3.541	0.082	0	0	0	1
PL.69700	PL.69698	B	#1/0 ACSR	7.29Y	121.4	0.00	3.58	0.96	0	7	2	96	0.00	0.0	3.578	0.037	7	2	1	1
PL.69695	PL.69692	B	#4 ACSR	7.30Y	121.7	0.00	3.31	0.00	0	0	0	100	0.00	0.0	2.846	0.042	0	0	1	1
PL.69690	PL.69926	B	#1/0 ACSR	7.32Y	121.9	0.00	3.08	2.81	1	20	5	97	0.00	0.0	2.690	0.038	20	5	3	3
PL.69687	PL.70143	B	#1/0 ACSR	7.32Y	122.0	0.00	2.96	0.96	0	7	2	96	0.00	0.0	2.608	0.020	7	2	1	1
PL.70310	PL.70132	A	#4 ACSR	7.39Y	123.1	0.00	1.90	2.25	2	16	4	97	0.00	0.0	1.703	0.004	0	0	0	3
PD.10481	PL.70310	A	65T	7.39Y	123.1	0.00	1.90	2.25	0	16	4	97	0.00	0.0	1.703	0.004	0	0	0	3
PL.70311	PD.10481	A	#4 ACSR	7.39Y	123.1	0.00	1.90	2.25	2	16	4	97	0.00	0.0	1.747	0.044	6	2	1	3

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

Balanced Voltage Drop Report
Source: Tyner

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.69682	PL.70311	A	#4 ACSR	7.39Y	123.1	0.00	1.90	0.41	0	3	1	95	0.00	0.0	1.793	0.047	3	1	1	1
PL.69683	PL.70311	A	#4 ACSR	7.39Y	123.1	0.00	1.90	1.03	1	7	2	96	0.00	0.0	1.783	0.037	7	2	1	1
PL.70290	PL.70116	C	#4 ACSR	7.44Y	124.0	0.00	0.99	1.02	1	7	2	96	0.00	0.0	0.838	0.004	0	0	0	3
PD.10470	PL.70290	C	65T	7.44Y	124.0	0.00	0.99	1.02	0	7	2	96	0.00	0.0	0.838	0.004	0	0	0	3
PL.70291	PD.10470	C	#4 ACSR	7.44Y	124.0	0.00	0.99	1.02	1	7	2	96	0.00	0.0	0.882	0.044	7	2	3	3
PL.70294	PL.69912	A	6 A (CWC)	7.46Y	124.3	0.00	0.71	1.15	1	8	2	97	0.00	0.0	0.600	0.005	0	0	0	2
PD.10473	PL.70294	A	65T	7.46Y	124.3	0.00	0.71	1.15	0	8	2	97	0.00	0.0	0.600	0.005	0	0	0	2
PL.70295	PD.10473	A	6 A (CWC)	7.46Y	124.3	0.00	0.71	1.15	1	8	2	97	0.00	0.0	0.667	0.067	8	2	2	2
PL.70286	PL.69651	C	#1/0 ACSR	7.46Y	124.4	0.00	0.60	0.82	0	6	2	95	0.00	0.0	0.509	0.005	0	0	0	2
PD.10468	PL.70286	C	10T	7.46Y	124.4	0.00	0.60	0.82	0	6	2	95	0.00	0.0	0.509	0.005	0	0	0	2
PL.70287	PD.10468	C	#1/0 ACSR	7.46Y	124.4	0.00	0.60	0.82	0	6	2	95	0.00	0.0	0.543	0.034	6	2	2	2
PL.70406	PL.70104	C	#2 ACSR	7.48Y	124.7	0.00	0.35	8.51	5	62	16	97	0.00	0.0	0.291	0.004	0	0	0	11
PD.10531	PL.70406	C	65T	7.48Y	124.7	0.00	0.35	8.51	0	62	16	97	0.00	0.0	0.291	0.004	0	0	0	11
PL.70407	PD.10531	C	#2 ACSR	7.48Y	124.6	0.01	0.36	8.51	5	62	16	97	0.00	0.0	0.325	0.034	16	4	3	11
PL.70102	PL.70407	C	#2 ACSR	7.48Y	124.6	0.01	0.36	6.27	4	45	12	97	0.00	0.0	0.367	0.042	11	3	3	8
PL.70117	PL.70102	C	#2 ACSR	7.48Y	124.6	0.01	0.37	4.68	3	34	9	97	0.00	0.0	0.409	0.042	5	1	1	5
PL.70118	PL.70117	C	#2 ACSR	7.48Y	124.6	0.00	0.37	4.01	2	29	8	96	0.00	0.0	0.424	0.014	0	0	0	4
PL.70151	PL.70118	C	#2 ACSR	7.48Y	124.6	0.00	0.37	4.01	2	29	8	96	0.00	0.0	0.443	0.019	10	3	1	4
PL.70152	PL.70151	C	#2 ACSR	7.48Y	124.6	0.00	0.37	2.58	1	19	5	97	0.00	0.0	0.465	0.022	11	3	2	3
PL.69650	PL.70152	C	#1/0 ACSR	7.48Y	124.6	0.00	0.38	1.12	0	8	2	97	0.00	0.0	0.493	0.028	8	2	1	1
PL.69649	PL.72924	ABC	#1/0 ACSR	7.50Y	125.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	0.014	0.004	0	0	0	0
PL.68328	Tyner	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	53.47	10	1159	321	96	0.01	0.0	0.005	0.005	0	0	0	279
PL.72921	PL.68328	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	53.47	10	1159	321	96	0.01	0.0	0.007	0.002	0	0	0	279
---------- Feeder No. 0 (Zekes Point F2) Beginning with Device PD.11202 ----------																				
PD.11202	PL.72921	ABC	360VWE	7.50Y	125.0	0.00	0.00	53.47	0	1159	321	96	0.00	0.0	0.007	0.002	0	0	0	279
PL.72922	PD.11202	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	53.47	10	1159	321	96	0.06	0.0	0.031	0.024	10	3	1	279
PL.69421	PL.72922	ABC	336 MCM AC	7.50Y	125.0	0.02	0.03	53.02	10	1150	318	96	0.10	0.0	0.072	0.041	0	0	0	278
PL.69260	PL.69421	ABC	336 MCM AC	7.49Y	124.9	0.06	0.09	53.02	10	1150	318	96	0.38	0.0	0.230	0.159	0	0	0	278
PL.69259	PL.69260	ABC	336 MCM AC	7.49Y	124.9	0.04	0.13	53.02	10	1149	317	96	0.24	0.0	0.333	0.103	0	0	0	278

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: Tyner

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.69607	PL.69259	C	#4 ACSR	7.49Y	124.9	0.00	0.13	0.99	1	7	2	96	0.00	0.0	0.337	0.004	0	0	0	1
PD.10422	PL.69607	C	65T	7.49Y	124.9	0.00	0.13	0.99	0	7	2	96	0.00	0.0	0.337	0.004	0	0	0	1
PL.69608	PD.10422	C	#4 ACSR	7.49Y	124.9	0.00	0.13	0.99	1	7	2	96	0.00	0.0	0.368	0.030	7	2	1	1
PL.69214	PL.69259	ABC	336 MCM AC	7.49Y	124.8	0.03	0.16	52.69	10	1142	315	96	0.20	0.0	0.419	0.086	0	0	0	277
PL.69215	PL.69214	ABC	336 MCM AC	7.49Y	124.8	0.03	0.20	52.03	10	1127	311	96	0.19	0.0	0.504	0.084	7	2	1	274
PL.69090	PL.69215	ABC	336 MCM AC	7.49Y	124.8	0.03	0.23	51.71	10	1120	308	96	0.17	0.0	0.577	0.073	0	0	1	273
PL.69601	PL.69090	C	#4 ACSR	7.49Y	124.8	0.00	0.23	2.09	2	15	4	97	0.00	0.0	0.582	0.005	0	0	0	6
PD.10419	PL.69601	C	65T	7.49Y	124.8	0.00	0.23	2.09	0	15	4	97	0.00	0.0	0.582	0.005	0	0	0	6
PL.69602	PD.10419	C	#4 ACSR	7.49Y	124.8	0.00	0.23	2.09	2	15	4	97	0.00	0.0	0.616	0.034	6	2	1	6
PL.69523	PL.69602	C	#4 ACSR	7.49Y	124.8	0.00	0.23	1.24	1	9	2	98	0.00	0.0	0.660	0.044	5	1	2	5
PL.69092	PL.69523	C	#4 ACSR	7.49Y	124.8	0.00	0.23	0.49	0	4	1	97	0.00	0.0	0.712	0.052	1	0	1	3
PL.69093	PL.69092	C	#1/0 ACSR	7.49Y	124.8	0.00	0.23	0.39	0	3	1	95	0.00	0.0	0.753	0.041	3	1	2	2
PL.69521	PL.69090	ABC	336 MCM AC	7.48Y	124.7	0.04	0.27	50.73	10	1099	302	96	0.25	0.0	0.693	0.116	11	3	1	265
PL.69522	PL.69521	ABC	336 MCM AC	7.48Y	124.7	0.03	0.30	50.24	10	1088	299	96	0.15	0.0	0.765	0.072	0	0	0	264
PL.69599	PL.69522	C	#4 ACSR	7.48Y	124.7	0.00	0.30	1.82	1	13	3	97	0.00	0.0	0.770	0.005	0	0	0	4
PD.10418	PL.69599	C	65T	7.48Y	124.7	0.00	0.30	1.82	0	13	3	97	0.00	0.0	0.770	0.005	0	0	0	4
PL.69600	PD.10418	C	#4 ACSR	7.48Y	124.7	0.00	0.30	1.82	1	13	3	97	0.00	0.0	0.816	0.047	0	0	0	4
PL.69094	PL.69600	C	#4 ACSR	7.48Y	124.7	0.00	0.30	0.00	0	0	0	100	0.00	0.0	0.881	0.065	0	0	1	1
PL.69217	PL.69600	C	#4 ACSR	7.48Y	124.7	0.00	0.30	1.82	1	13	3	97	0.00	0.0	0.842	0.026	13	3	3	3
PL.69216	PL.69522	ABC	336 MCM AC	7.48Y	124.7	0.05	0.35	49.63	10	1074	295	96	0.28	0.0	0.902	0.137	0	0	0	260
PL.69597	PL.69216	A	#4 ACSR	7.48Y	124.7	0.00	0.35	1.08	1	8	2	97	0.00	0.0	0.907	0.005	0	0	0	2
PD.10417	PL.69597	A	65T	7.48Y	124.7	0.00	0.35	1.08	0	8	2	97	0.00	0.0	0.907	0.005	0	0	0	2
PL.69598	PD.10417	A	#4 ACSR	7.48Y	124.7	0.00	0.35	1.08	1	8	2	97	0.00	0.0	0.963	0.056	1	0	1	2
PL.69095	PL.69598	A	#4 ACSR	7.48Y	124.7	0.00	0.35	0.94	1	7	2	96	0.00	0.0	1.011	0.048	7	2	1	1
PL.69611	PL.69216	C	#4 ACSR	7.48Y	124.7	0.00	0.35	0.87	1	6	2	95	0.00	0.0	0.907	0.005	0	0	0	1
PD.10424	PL.69611	C	65T	7.48Y	124.7	0.00	0.35	0.87	0	6	2	95	0.00	0.0	0.907	0.005	0	0	0	1
PL.69612	PD.10424	C	#4 ACSR	7.48Y	124.7	0.00	0.35	0.87	1	6	2	95	0.00	0.0	0.975	0.068	6	2	1	1
PL.69218	PL.69216	ABC	336 MCM AC	7.48Y	124.6	0.04	0.39	48.98	9	1060	291	96	0.23	0.0	1.015	0.113	1	0	1	257
PL.69519	PL.69218	ABC	336 MCM AC	7.48Y	124.6	0.01	0.40	44.93	9	972	267	96	0.04	0.0	1.041	0.026	5	1	3	236
PL.69520	PL.69519	ABC	336 MCM AC	7.48Y	124.6	0.02	0.41	44.69	9	967	265	96	0.08	0.0	1.087	0.046	21	6	5	233
PL.69516	PL.69520	ABC	336 MCM AC	7.47Y	124.6	0.01	0.42	43.72	8	945	260	96	0.06	0.0	1.127	0.039	0	0	1	228

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Balanced Voltage Drop Report
Source: Tyner

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.69514	PL.69516	ABC	336 MCM AC	7.47Y	124.6	0.01	0.43	43.72	8	945	259	96	0.05	0.0	1.158	0.031	11	3	2	227
PL.69515	PL.69514	ABC	336 MCM AC	7.47Y	124.6	0.01	0.45	43.20	8	934	256	96	0.07	0.0	1.204	0.046	22	6	9	225
PL.69509	PL.69515	ABC	336 MCM AC	7.47Y	124.5	0.02	0.47	42.19	8	912	250	96	0.09	0.0	1.262	0.058	6	2	2	216
PL.69508	PL.69509	ABC	336 MCM AC	7.47Y	124.5	0.01	0.47	41.90	8	906	249	96	0.04	0.0	1.290	0.028	16	4	6	214
PL.69595	PL.69508	C	#4 ACSR	7.47Y	124.5	0.00	0.47	0.95	1	7	2	96	0.00	0.0	1.295	0.005	0	0	0	1
PD.10416	PL.69595	C	65T	7.47Y	124.5	0.00	0.47	0.95	0	7	2	96	0.00	0.0	1.295	0.005	0	0	0	1
PL.69596	PD.10416	C	#4 ACSR	7.47Y	124.5	0.00	0.48	0.95	1	7	2	96	0.00	0.0	1.319	0.024	7	2	1	1
PL.69501	PL.69508	ABC	336 MCM AC	7.47Y	124.5	0.02	0.50	40.84	8	883	242	96	0.11	0.0	1.366	0.076	10	3	2	207
PL.69502	PL.69501	ABC	336 MCM AC	7.47Y	124.5	0.01	0.51	40.38	8	873	239	96	0.06	0.0	1.408	0.042	0	0	0	205
PL.69418	PL.69502	ABC	336 MCM AC	7.47Y	124.4	0.05	0.56	40.38	8	873	239	96	0.21	0.0	1.561	0.153	0	0	0	205
PL.69261	PL.69418	ABC	336 MCM AC	7.46Y	124.4	0.04	0.59	40.38	8	872	239	96	0.17	0.0	1.687	0.126	0	0	0	205
PL.69221	PL.69261	ABC	336 MCM AC	7.46Y	124.4	0.02	0.62	40.19	8	868	237	96	0.10	0.0	1.761	0.074	0	0	0	204
PL.69104	PL.69221	ABC	336 MCM AC	7.46Y	124.3	0.04	0.66	40.19	8	868	237	96	0.19	0.0	1.902	0.141	0	0	0	204
PL.69262	PL.69104	ABC	336 MCM AC	7.46Y	124.3	0.04	0.69	40.19	8	868	237	96	0.17	0.0	2.027	0.125	0	0	0	204
PL.69498	PL.69262	ABC	336 MCM AC	7.46Y	124.3	0.02	0.72	40.18	8	867	236	96	0.10	0.0	2.101	0.074	9	2	2	202
PL.69499	PL.69498	ABC	336 MCM AC	7.46Y	124.3	0.01	0.73	39.74	8	858	233	97	0.04	0.0	2.132	0.031	0	0	1	200
PL.69500	PL.69499	ABC	336 MCM AC	7.46Y	124.3	0.01	0.74	39.74	8	858	233	97	0.07	0.0	2.182	0.050	0	0	0	199
PL.69495	PL.69500	ABC	336 MCM AC	7.45Y	124.2	0.03	0.77	36.86	7	796	217	96	0.11	0.0	2.280	0.098	6	2	1	180
PL.69496	PL.69495	ABC	336 MCM AC	7.45Y	124.2	0.04	0.81	36.60	7	790	215	96	0.17	0.0	2.432	0.153	30	8	2	179
PL.69483	PL.69496	ABC	336 MCM AC	7.45Y	124.2	0.01	0.82	35.21	7	760	207	96	0.03	0.0	2.464	0.032	0	0	0	177
PL.69631	PL.69483	ABC	336 MCM AC	7.45Y	124.2	0.00	0.82	32.76	6	707	193	96	0.02	0.0	2.483	0.019	0	0	0	169
PD.10434-A	PL.69631	ABC	Closed	7.45Y	124.2	0.00	0.82	32.76	0	707	192	97	0.00	0.0	2.483	0.019	0	0	0	169
PD.10434-B	PD.10434-A	ABC	Closed	7.45Y	124.2	0.00	0.82	32.76	0	707	192	97	0.00	0.0	2.483	0.019	0	0	0	169
PL.69632	PD.10434-B	ABC	336 MCM AC	7.45Y	124.2	0.00	0.82	32.76	6	707	192	97	0.02	0.0	2.501	0.018	0	0	0	169
PL.69579	PL.69632	C	#1/0 ACSR	7.45Y	124.2	0.00	0.82	1.10	0	8	2	97	0.00	0.0	2.505	0.004	0	0	0	1
PD.10404	PL.69579	C	10T	7.45Y	124.2	0.00	0.82	1.10	0	8	2	97	0.00	0.0	2.505	0.004	0	0	0	1
PL.69580	PD.10404	C	#1/0 ACSR	7.45Y	124.2	0.00	0.83	1.10	0	8	2	97	0.00	0.0	2.570	0.064	8	2	1	1
PL.69229	PL.69632	ABC	336 MCM AC	7.45Y	124.2	0.03	0.85	32.39	6	699	190	96	0.09	0.0	2.609	0.107	0	0	0	168
PL.69126	PL.69229	C	#1/0 ACSR	7.45Y	124.1	0.02	0.87	13.66	6	98	26	97	0.01	0.0	2.670	0.061	0	0	0	21
PL.69637	PL.69126	C	#1/0 ACSR	7.45Y	124.1	0.00	0.87	13.66	6	98	26	97	0.00	0.0	2.673	0.003	0	0	0	21
PD.10437	PL.69637	C	35L	7.45Y	124.1	0.00	0.87	13.66	39	98	26	97	0.00	0.0	2.673	0.003	0	0	0	21

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: Tyner

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.69638	PD.10437	C	#1/0 ACSR	7.45Y	124.1	0.04	0.91	13.66	6	98	26	97	0.02	0.0	2.785	0.112	0	0	0	21
PL.69352	PL.69638	C	#1/0 ACSR	7.44Y	124.1	0.04	0.94	13.66	6	98	26	97	0.02	0.0	2.899	0.114	0	0	0	21
PL.69353	PL.69352	C	#1/0 ACSR	7.44Y	124.0	0.04	0.98	13.66	6	98	26	97	0.02	0.0	3.022	0.123	0	0	0	21
PL.69354	PL.69353	C	#1/0 ACSR	7.44Y	124.0	0.02	1.00	13.66	6	98	26	97	0.01	0.0	3.089	0.067	0	0	0	21
PL.69231	PL.69354	C	#1/0 ACSR	7.44Y	123.9	0.05	1.05	13.66	6	98	26	97	0.03	0.0	3.246	0.157	0	0	0	20
PL.69128	PL.69231	C	#1/0 ACSR	7.44Y	123.9	0.01	1.06	13.66	6	98	26	97	0.01	0.0	3.281	0.035	0	0	0	20
PL.69129	PL.69128	C	#1/0 ACSR	7.44Y	123.9	0.00	1.06	1.27	1	9	2	98	0.00	0.0	3.328	0.047	9	2	2	2
PL.69232	PL.69128	C	#1/0 ACSR	7.43Y	123.9	0.03	1.09	12.38	5	89	24	97	0.02	0.0	3.387	0.106	6	2	2	18
PL.69233	PL.69232	C	#1/0 ACSR	7.43Y	123.9	0.02	1.11	7.37	3	53	14	97	0.01	0.0	3.501	0.114	0	0	0	10
PL.69489	PL.69233	C	#1/0 ACSR	7.43Y	123.9	0.02	1.13	7.37	3	53	14	97	0.01	0.0	3.646	0.146	2	1	1	10
PL.69490	PL.69489	C	#1/0 ACSR	7.43Y	123.8	0.02	1.15	7.08	3	51	13	97	0.01	0.0	3.754	0.108	0	0	0	9
PL.69355	PL.69490	C	#1/0 ACSR	7.43Y	123.8	0.02	1.17	7.08	3	51	13	97	0.01	0.0	3.851	0.097	0	0	0	9
PL.69583	PL.69355	C	#1/0 ACSR	7.43Y	123.8	0.00	1.17	0.92	0	7	2	96	0.00	0.0	3.856	0.005	0	0	0	1
PD.10410	PL.69583	C	10T	7.43Y	123.8	0.00	1.17	0.92	0	7	2	96	0.00	0.0	3.856	0.005	0	0	0	1
PL.69584	PD.10410	C	#1/0 ACSR	7.43Y	123.8	0.00	1.17	0.92	0	7	2	96	0.00	0.0	3.883	0.028	7	2	1	1
PL.69234	PL.69355	C	#1/0 ACSR	7.43Y	123.8	0.01	1.18	6.15	3	44	12	96	0.00	0.0	3.929	0.078	3	1	1	8
PL.69130	PL.69234	C	#1/0 ACSR	7.43Y	123.8	0.02	1.20	5.72	2	41	11	97	0.00	0.0	4.063	0.135	0	0	0	7
PL.69491	PL.69130	C	#1/0 ACSR	7.43Y	123.8	0.01	1.21	5.72	2	41	11	97	0.00	0.0	4.143	0.080	3	1	1	7
PL.69492	PL.69491	C	#1/0 ACSR	7.43Y	123.8	0.01	1.21	5.30	2	38	10	97	0.00	0.0	4.207	0.064	0	0	0	6
PL.69587	PL.69492	C	#1/0 ACSR	7.43Y	123.8	0.00	1.21	2.09	1	15	4	97	0.00	0.0	4.212	0.005	0	0	0	3
PD.10412	PL.69587	C	15T	7.43Y	123.8	0.00	1.21	2.09	0	15	4	97	0.00	0.0	4.212	0.005	0	0	0	3
PL.69588	PD.10412	C	#1/0 ACSR	7.43Y	123.8	0.00	1.22	2.09	1	15	4	97	0.00	0.0	4.280	0.068	1	0	1	3
PL.69133	PL.69588	C	#1/0 ACSR	7.43Y	123.8	0.01	1.22	1.90	1	14	4	96	0.00	0.0	4.409	0.129	0	0	0	2
PL.69134	PL.69133	C	#1/0 ACSR	7.43Y	123.8	0.00	1.23	1.90	1	14	4	96	0.00	0.0	4.511	0.102	7	2	1	2
PL.69493	PL.69134	C	#4 ACSR	7.43Y	123.8	0.00	1.23	0.86	1	6	2	95	0.00	0.0	4.548	0.037	0	0	0	1
PL.69494	PL.69493	C	#4 ACSR	7.43Y	123.8	0.00	1.23	0.86	1	6	2	95	0.00	0.0	4.730	0.182	6	2	1	1
PL.69131	PL.69492	C	#1/0 ACSR	7.43Y	123.8	0.00	1.22	3.21	1	23	6	97	0.00	0.0	4.263	0.056	0	0	0	3
PL.69135	PL.69131	C	#4 ACSR	7.43Y	123.8	0.00	1.22	1.10	1	8	2	97	0.00	0.0	4.334	0.071	8	2	1	1
PL.69585	PL.69135	C	#1/0 ACSR	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	4.339	0.005	0	0	0	0
PD.10411	PL.69585	C	15T	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	4.339	0.005	0	0	0	0
PL.69586	PD.10411	C	#1/0 ACSR	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	4.443	0.104	0	0	0	0

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Balanced Voltage Drop Report
Source: Tyner

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.69132	PL.69131	C	#2 ACSR	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	4.314	0.050	0	0	0	0
PL.69525	PL.69131	C	#1/0 ACSR	7.43Y	123.8	0.00	1.22	2.11	1	15	4	97	0.00	0.0	4.276	0.013	3	1	1	2
PL.69526	PL.69525	C	#1/0 ACSR	7.43Y	123.8	0.00	1.22	1.70	1	12	3	97	0.00	0.0	4.434	0.158	12	3	1	1
PL.69581	PL.69232	C	6 A (CWC)	7.43Y	123.9	0.00	1.09	4.12	3	30	8	97	0.00	0.0	3.391	0.004	0	0	0	6
PD.10409	PL.69581	C	20T	7.43Y	123.9	0.00	1.09	4.12	0	30	8	97	0.00	0.0	3.391	0.004	0	0	0	6
PL.69582	PD.10409	C	6 A (CWC)	7.43Y	123.9	0.02	1.11	4.12	3	30	8	97	0.00	0.0	3.501	0.109	7	2	1	6
PL.69488	PL.69582	C	6 A (CWC)	7.43Y	123.9	0.02	1.13	3.18	2	23	6	97	0.00	0.0	3.630	0.129	0	0	0	5
PL.69486	PL.69488	C	6 A (CWC)	7.43Y	123.9	0.01	1.14	3.18	2	23	6	97	0.00	0.0	3.747	0.117	6	2	2	5
PL.69487	PL.69486	C	6 A (CWC)	7.43Y	123.8	0.02	1.16	2.30	2	17	4	97	0.00	0.0	3.901	0.154	0	0	0	3
PL.69484	PL.69487	C	6 A (CWC)	7.43Y	123.8	0.01	1.16	2.30	2	17	4	97	0.00	0.0	3.970	0.069	9	2	2	3
PL.69485	PL.69484	C	6 A (CWC)	7.43Y	123.8	0.00	1.17	1.05	1	8	2	97	0.00	0.0	4.096	0.127	8	2	1	1
PL.69127	PL.69354	C	#1/0 ACSR	7.44Y	124.0	0.00	1.00	0.00	0	0	0	100	0.00	0.0	3.156	0.066	0	0	1	1
PL.69230	PL.69229	ABC	336 MCM AC	7.45Y	124.1	0.03	0.88	27.84	5	600	164	96	0.11	0.0	2.777	0.169	0	0	0	147
PL.69481	PL.69230	ABC	336 MCM AC	7.45Y	124.1	0.01	0.90	27.84	5	600	164	96	0.04	0.0	2.834	0.057	0	0	0	147
PL.69482	PL.69481	ABC	336 MCM AC	7.45Y	124.1	0.01	0.91	27.84	5	600	164	96	0.03	0.0	2.883	0.049	0	0	0	147
PL.69416	PL.69482	ABC	336 MCM AC	7.44Y	124.1	0.03	0.94	27.53	5	593	162	96	0.09	0.0	3.025	0.142	0	0	0	145
PL.69356	PL.69416	ABC	336 MCM AC	7.44Y	124.0	0.02	0.96	27.53	5	593	161	97	0.08	0.0	3.145	0.120	8	2	2	145
PL.69573	PL.69356	C	#4 ACSR	7.44Y	124.0	0.00	0.96	1.65	1	12	3	97	0.00	0.0	3.150	0.005	0	0	0	2
PD.10401	PL.69573	C	40T	7.44Y	124.0	0.00	0.96	1.65	0	12	3	97	0.00	0.0	3.150	0.005	0	0	0	2
PL.69574	PD.10401	C	#4 ACSR	7.44Y	124.0	0.01	0.97	1.65	1	12	3	97	0.00	0.0	3.270	0.121	0	0	0	2
PL.69137	PL.69574	C	#4 ACSR	7.44Y	124.0	0.00	0.97	1.65	1	12	3	97	0.00	0.0	3.342	0.071	12	3	2	2
PL.69138	PL.69137	C	#2 ACSR	7.44Y	124.0	0.00	0.97	0.00	0	0	0	100	0.00	0.0	3.412	0.070	0	0	0	0
PL.69235	PL.69356	ABC	336 MCM AC	7.44Y	124.0	0.01	0.97	26.63	5	574	156	96	0.03	0.0	3.194	0.049	0	0	0	141
PL.69647	PL.69235	ABC	336 MCM AC	7.44Y	124.0	0.00	0.97	26.63	5	574	156	96	0.00	0.0	3.197	0.003	0	0	0	141
PD.10442	PL.69647	ABC	70L	7.44Y	124.0	0.00	0.97	26.63	38	574	156	96	0.00	0.0	3.197	0.003	0	0	0	141
PL.69648	PD.10442	ABC	336 MCM AC	7.44Y	124.0	0.01	0.98	26.63	5	574	156	96	0.02	0.0	3.236	0.039	6	2	1	141
PL.69571	PL.69648	C	#1/0 ACSR	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	3.240	0.005	0	0	0	0
PD.10400	PL.69571	C	30T	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	3.240	0.005	0	0	0	0
PL.69572	PD.10400	C	#1/0 ACSR	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	3.295	0.055	0	0	0	0
PL.69136	PL.69572	C	#1/0 ACSR	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	3.402	0.107	0	0	0	0
PL.69357	PL.69136	C	#1/0 ACSR	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	3.497	0.095	0	0	0	0

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Balanced Voltage Drop Report
Source: Tyner

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.69475	PL.69357	C	#1/0 ACSR	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	3.553	0.056	0	0	0	0
PL.69476	PL.69475	C	#1/0 ACSR	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	3.579	0.026	0	0	0	0
PL.69139	PL.69648	ABC	336 MCM AC	7.44Y	124.0	0.03	1.01	26.33	5	567	154	97	0.09	0.0	3.387	0.152	0	0	0	140
PL.69569	PL.69139	B	#4 ACSR	7.44Y	124.0	0.00	1.01	1.30	1	9	2	98	0.00	0.0	3.392	0.005	0	0	0	4
PD.10399	PL.69569	B	40T	7.44Y	124.0	0.00	1.01	1.30	0	9	2	98	0.00	0.0	3.392	0.005	0	0	0	4
PL.69570	PD.10399	B	#4 ACSR	7.44Y	124.0	0.00	1.01	1.30	1	9	2	98	0.00	0.0	3.448	0.056	3	1	1	4
PL.69140	PL.69570	B	#4 ACSR	7.44Y	124.0	0.00	1.01	0.04	0	0	0	100	0.00	0.0	3.518	0.070	0	0	1	1
PL.69477	PL.69570	B	#4 ACSR	7.44Y	124.0	0.00	1.01	0.84	1	6	2	95	0.00	0.0	3.467	0.019	6	2	2	2
PL.69478	PL.69477	B	#4 ACSR	7.44Y	124.0	0.00	1.01	0.00	0	0	0	100	0.00	0.0	3.500	0.033	0	0	0	0
PL.69236	PL.69139	ABC	336 MCM AC	7.44Y	124.0	0.03	1.03	25.90	5	558	152	96	0.08	0.0	3.525	0.138	0	0	0	136
PL.69237	PL.69236	ABC	336 MCM AC	7.44Y	123.9	0.03	1.06	25.24	5	544	148	96	0.07	0.0	3.661	0.136	0	0	1	129
PL.69143	PL.69237	ABC	336 MCM AC	7.44Y	123.9	0.01	1.07	25.24	5	543	148	96	0.04	0.0	3.729	0.068	0	0	0	128
PL.69565	PL.69143	A	#1/0 ACSR	7.44Y	123.9	0.00	1.07	0.45	0	3	1	95	0.00	0.0	3.734	0.005	0	0	0	1
PD.10397	PL.69565	A	30T	7.44Y	123.9	0.00	1.07	0.45	0	3	1	95	0.00	0.0	3.734	0.005	0	0	0	1
PL.69566	PD.10397	A	#1/0 ACSR	7.44Y	123.9	0.00	1.07	0.45	0	3	1	95	0.00	0.0	3.791	0.057	3	1	1	1
PL.69145	PL.69143	ABC	336 MCM AC	7.44Y	123.9	0.01	1.08	24.24	5	522	142	96	0.01	0.0	3.759	0.030	0	0	0	119
PL.69239	PL.69145	ABC	336 MCM AC	7.43Y	123.9	0.01	1.09	24.24	5	522	142	96	0.02	0.0	3.809	0.049	0	0	0	119
PL.69153	PL.69239	ABC	336 MCM AC	7.43Y	123.9	0.00	1.09	24.24	5	522	142	96	0.01	0.0	3.836	0.027	0	0	0	119
PL.69240	PL.69153	ABC	336 MCM AC	7.43Y	123.9	0.02	1.11	24.20	5	521	141	97	0.04	0.0	3.924	0.088	0	0	0	118
PL.69361	PL.69240	ABC	336 MCM AC	7.43Y	123.9	0.02	1.13	24.20	5	521	141	97	0.06	0.0	4.047	0.123	0	0	0	118
PL.69362	PL.69361	ABC	336 MCM AC	7.43Y	123.9	0.02	1.15	24.20	5	521	141	97	0.06	0.0	4.164	0.116	0	0	0	118
PL.69469	PL.69362	ABC	336 MCM AC	7.43Y	123.8	0.01	1.15	24.20	5	521	141	97	0.02	0.0	4.196	0.032	9	2	1	118
PL.69470	PL.69469	ABC	336 MCM AC	7.43Y	123.8	0.02	1.17	23.80	5	512	139	97	0.05	0.0	4.296	0.100	0	0	0	117
PL.69241	PL.69470	ABC	336 MCM AC	7.43Y	123.8	0.01	1.18	23.51	5	506	137	97	0.02	0.0	4.348	0.052	0	0	0	116
PL.69242	PL.69241	ABC	336 MCM AC	7.43Y	123.8	0.01	1.19	23.20	4	499	135	97	0.02	0.0	4.401	0.053	0	0	0	115
PL.69557	PL.69242	C	#4 ACSR	7.43Y	123.8	0.00	1.19	0.83	1	6	2	95	0.00	0.0	4.405	0.004	0	0	0	1
PD.10393	PL.69557	C	40T	7.43Y	123.8	0.00	1.19	0.83	0	6	2	95	0.00	0.0	4.405	0.004	0	0	0	1
PL.69558	PD.10393	C	#4 ACSR	7.43Y	123.8	0.00	1.19	0.83	1	6	2	95	0.00	0.0	4.455	0.050	6	2	1	1
PL.69243	PL.69242	ABC	336 MCM AC	7.43Y	123.8	0.02	1.21	22.93	4	493	134	96	0.05	0.0	4.510	0.109	0	0	0	114
PL.69363	PL.69243	ABC	336 MCM AC	7.43Y	123.8	0.02	1.23	22.93	4	493	133	97	0.05	0.0	4.618	0.108	0	0	0	114
PL.69364	PL.69363	ABC	336 MCM AC	7.42Y	123.7	0.03	1.26	22.93	4	493	133	97	0.08	0.0	4.790	0.173	0	0	0	114

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Balanced Voltage Drop Report
Source: Tyner

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.69158	PL.69364	C	#1/0 ACSR	7.42Y	123.7	0.00	1.26	0.63	0	5	1	98	0.00	0.0	4.794	0.004	0	0	0	2
PD.10391	PL.69158	C	40T	7.42Y	123.7	0.00	1.26	0.63	0	5	1	98	0.00	0.0	4.794	0.004	0	0	0	2
PL.69245	PD.10391	C	#1/0 ACSR	7.42Y	123.7	0.00	1.26	0.00	0	0	0	100	0.00	0.0	4.813	0.018	0	0	1	1
PL.69415	PD.10391	C	#1/0 ACSR	7.42Y	123.7	0.00	1.26	0.63	0	5	1	98	0.00	0.0	4.840	0.045	5	1	1	1
PL.69244	PL.69364	ABC	336 MCM AC	7.42Y	123.7	0.02	1.27	22.72	4	488	132	97	0.05	0.0	4.904	0.113	0	0	0	112
PL.69365	PL.69244	ABC	336 MCM AC	7.42Y	123.7	0.02	1.29	22.72	4	488	132	97	0.04	0.0	5.000	0.097	0	0	0	112
PL.69366	PL.69365	ABC	336 MCM AC	7.42Y	123.7	0.02	1.31	22.72	4	488	132	97	0.04	0.0	5.093	0.092	0	0	0	112
PL.69367	PL.69366	ABC	336 MCM AC	7.42Y	123.7	0.03	1.34	22.72	4	488	132	97	0.08	0.0	5.266	0.174	0	0	0	112
PL.69555	PL.69367	B	6 A (CWC)	7.42Y	123.7	0.00	1.34	9.75	7	70	19	97	0.00	0.0	5.270	0.004	0	0	0	9
PD.10390	PL.69555	B	30T	7.42Y	123.7	0.00	1.34	9.75	0	70	19	97	0.00	0.0	5.270	0.004	0	0	0	9
PL.69556	PD.10390	B	6 A (CWC)	7.42Y	123.6	0.08	1.42	9.75	7	70	19	97	0.04	0.1	5.448	0.177	0	0	0	9
PL.69368	PL.69556	B	6 A (CWC)	7.41Y	123.5	0.08	1.49	9.75	7	70	19	97	0.04	0.1	5.620	0.173	0	0	0	9
PL.69615	PL.69368	B	6 A (CWC)	7.41Y	123.5	0.00	1.49	1.01	1	7	2	96	0.00	0.0	5.625	0.005	0	0	0	1
PD.10426	PL.69615	B	20T	7.41Y	123.5	0.00	1.49	1.01	0	7	2	96	0.00	0.0	5.625	0.005	0	0	0	1
PL.69616	PD.10426	B	6 A (CWC)	7.41Y	123.5	0.00	1.50	1.01	1	7	2	96	0.00	0.0	5.739	0.113	7	2	1	1
PL.69160	PL.69368	B	6 A (CWC)	7.41Y	123.5	0.03	1.52	6.44	5	46	12	97	0.01	0.0	5.716	0.095	0	0	0	5
PL.69247	PL.69160	B	6 A (CWC)	7.41Y	123.5	0.03	1.55	3.26	2	23	6	97	0.00	0.0	5.893	0.177	0	0	0	2
PL.69370	PL.69247	B	6 A (CWC)	7.41Y	123.4	0.01	1.56	3.26	2	23	6	97	0.00	0.0	5.973	0.080	0	0	0	2
PL.69165	PL.69370	B	6 A (CWC)	7.41Y	123.4	0.01	1.57	3.26	2	23	6	97	0.00	0.0	6.061	0.088	0	0	0	2
PL.69408	PL.69165	B	6 A (CWC)	7.40Y	123.4	0.02	1.59	3.26	2	23	6	97	0.00	0.0	6.164	0.103	0	0	0	2
PL.69371	PL.69408	B	6 A (CWC)	7.40Y	123.4	0.01	1.60	3.26	2	23	6	97	0.00	0.0	6.267	0.103	23	6	2	2
PL.69458	PL.69160	B	6 A (CWC)	7.41Y	123.5	0.01	1.53	3.17	2	23	6	97	0.00	0.0	5.814	0.098	12	3	1	3
PL.69459	PL.69458	B	6 A (CWC)	7.41Y	123.5	0.01	1.54	1.47	1	11	3	96	0.00	0.0	5.915	0.101	1	0	1	2
PL.69445	PL.69459	B	6 A (CWC)	7.41Y	123.5	0.00	1.54	1.35	1	10	3	96	0.00	0.0	5.990	0.074	0	0	0	1
PL.67775	PL.69445	B	6 A (CWC)	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	6.135	0.145	0	0	0	0
PL.67776	PL.67775	B	6 A (CWC)	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	6.240	0.105	0	0	0	0
PL.69369	PL.67776	B	6 A (CWC)	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	6.339	0.099	0	0	0	0
PL.69163	PL.69445	B	#1/0 ACSR	7.41Y	123.5	0.00	1.54	1.35	1	10	3	96	0.00	0.0	6.009	0.019	10	3	1	1
PL.69553	PL.69368	B	6 A (CWC)	7.41Y	123.5	0.00	1.49	2.31	2	17	4	97	0.00	0.0	5.625	0.005	0	0	0	3
PD.10389	PL.69553	B	20T	7.41Y	123.5	0.00	1.49	2.31	0	17	4	97	0.00	0.0	5.625	0.005	0	0	0	3
PL.69554	PD.10389	B	6 A (CWC)	7.41Y	123.5	0.01	1.50	2.31	2	17	4	97	0.00	0.0	5.699	0.073	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: Tyner

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.69162	PL.69554	B	#4 ACSR	7.41Y	123.5	0.00	1.50	0.90	1	6	2	95	0.00	0.0	5.795	0.097	6	2	1	1
PL.69161	PL.69554	B	#4 ACSR	7.41Y	123.5	0.00	1.50	1.40	1	10	3	96	0.00	0.0	5.745	0.047	10	3	2	2
PL.69246	PL.69367	ABC	336 MCM AC	7.42Y	123.6	0.02	1.35	19.46	4	418	113	97	0.04	0.0	5.380	0.114	0	0	0	103
PL.69372	PL.69246	ABC	336 MCM AC	7.42Y	123.6	0.02	1.37	19.46	4	418	113	97	0.04	0.0	5.503	0.123	0	0	0	103
PL.69373	PL.69372	ABC	336 MCM AC	7.42Y	123.6	0.02	1.39	19.46	4	418	113	97	0.04	0.0	5.627	0.123	0	0	0	103
PL.69159	PL.69373	ABC	336 MCM AC	7.42Y	123.6	0.01	1.39	19.46	4	418	113	97	0.01	0.0	5.665	0.039	0	0	0	103
PL.69613	PL.69159	B	6 A (CWC)	7.42Y	123.6	0.00	1.39	3.25	2	23	6	97	0.00	0.0	5.670	0.004	0	0	0	3
PD.10425	PL.69613	B	40T	7.42Y	123.6	0.00	1.39	3.25	0	23	6	97	0.00	0.0	5.670	0.004	0	0	0	3
PL.69614	PD.10425	B	6 A (CWC)	7.42Y	123.6	0.01	1.40	3.25	2	23	6	97	0.00	0.0	5.708	0.039	2	1	1	3
PL.69464	PL.69614	B	6 A (CWC)	7.42Y	123.6	0.01	1.41	2.92	2	21	6	96	0.00	0.0	5.840	0.132	21	6	2	2
PL.69462	PL.69159	ABC	336 MCM AC	7.42Y	123.6	0.01	1.40	18.38	4	395	106	97	0.03	0.0	5.755	0.089	1	0	1	100
PL.69463	PL.69462	ABC	336 MCM AC	7.42Y	123.6	0.01	1.42	18.35	4	394	106	97	0.02	0.0	5.841	0.086	8	2	2	99
PL.69444	PL.69463	ABC	336 MCM AC	7.41Y	123.6	0.01	1.43	17.99	3	386	104	97	0.02	0.0	5.922	0.081	0	0	0	97
PL.69374	PL.69444	ABC	336 MCM AC	7.41Y	123.6	0.01	1.44	17.99	3	386	104	97	0.03	0.0	6.029	0.107	0	0	0	97
PL.69375	PL.69374	ABC	336 MCM AC	7.41Y	123.5	0.01	1.46	17.99	3	386	104	97	0.03	0.0	6.136	0.107	0	0	0	97
PL.69166	PL.69375	ABC	336 MCM AC	7.41Y	123.5	0.01	1.46	17.99	3	386	104	97	0.02	0.0	6.200	0.064	0	0	0	97
PL.67777	PL.69166	ABC	336 MCM AC	7.41Y	123.5	0.00	1.47	17.07	3	366	99	97	0.01	0.0	6.224	0.024	0	0	0	90
PL.69633	PL.67777	ABC	336 MCM AC	7.41Y	123.5	0.00	1.47	17.07	3	366	99	97	0.00	0.0	6.229	0.005	0	0	0	90
PD.10435-A	PL.69633	ABC	Closed	7.41Y	123.5	0.00	1.47	17.07	0	366	99	97	0.00	0.0	6.229	0.005	0	0	0	90
PD.10435-B	PD.10435-A	ABC	Closed	7.41Y	123.5	0.00	1.47	17.07	0	366	99	97	0.00	0.0	6.229	0.005	0	0	0	90
PL.69634	PD.10435-B	ABC	336 MCM AC	7.41Y	123.5	0.01	1.47	17.07	3	366	99	97	0.01	0.0	6.281	0.052	0	0	0	90
PL.69177	PL.69634	ABC	336 MCM AC	7.41Y	123.5	0.01	1.49	17.07	3	366	99	97	0.03	0.0	6.386	0.104	0	0	0	90
PL.67782	PL.69177	ABC	336 MCM AC	7.41Y	123.5	0.01	1.50	16.79	3	361	97	97	0.03	0.0	6.504	0.119	0	0	0	89
PL.69388	PL.67782	ABC	336 MCM AC	7.41Y	123.5	0.02	1.52	16.79	3	360	97	97	0.03	0.0	6.633	0.129	0	0	0	89
PL.69390	PL.69388	ABC	336 MCM AC	7.41Y	123.5	0.01	1.53	16.79	3	360	97	97	0.02	0.0	6.697	0.064	0	0	0	89
PL.69389	PL.69390	ABC	336 MCM AC	7.41Y	123.5	0.02	1.54	16.79	3	360	97	97	0.03	0.0	6.823	0.126	0	0	0	89
PL.69391	PL.69389	ABC	336 MCM AC	7.41Y	123.4	0.01	1.56	16.79	3	360	97	97	0.03	0.0	6.944	0.121	0	0	0	89
PL.69392	PL.69391	ABC	336 MCM AC	7.41Y	123.4	0.01	1.57	16.79	3	360	97	97	0.03	0.0	7.064	0.121	0	0	0	89
PL.67783	PL.69392	ABC	336 MCM AC	7.40Y	123.4	0.01	1.58	16.79	3	360	97	97	0.02	0.0	7.165	0.101	0	0	0	89
PL.69393	PL.67783	ABC	336 MCM AC	7.40Y	123.4	0.01	1.60	16.79	3	360	96	97	0.02	0.0	7.264	0.099	5	1	1	89
PL.69547	PL.69393	A	#4 ACSR	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	7.268	0.004	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: Tyner

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.10386	PL.69547	A	40T	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	7.268	0.004	0	0	0	0
PL.69548	PD.10386	A	#4 ACSR	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	7.304	0.036	0	0	0	0
PL.67784	PL.69393	ABC	336 MCM AC	7.40Y	123.4	0.01	1.61	16.54	3	355	95	97	0.03	0.0	7.374	0.110	0	0	0	88
PL.69394	PL.67784	ABC	336 MCM AC	7.40Y	123.4	0.01	1.62	16.54	3	355	95	97	0.03	0.0	7.491	0.118	0	0	0	88
PL.69395	PL.69394	ABC	336 MCM AC	7.40Y	123.4	0.01	1.63	16.54	3	355	95	97	0.02	0.0	7.578	0.087	0	0	0	88
PL.69396	PL.69395	ABC	336 MCM AC	7.40Y	123.4	0.01	1.64	16.54	3	355	95	97	0.02	0.0	7.655	0.077	0	0	0	88
PL.69397	PL.69396	ABC	336 MCM AC	7.40Y	123.3	0.02	1.66	16.54	3	355	95	97	0.04	0.0	7.817	0.162	0	0	0	88
PL.69399	PL.69397	ABC	336 MCM AC	7.40Y	123.3	0.01	1.67	16.54	3	355	95	97	0.01	0.0	7.863	0.046	0	0	0	88
PL.69398	PL.69399	ABC	336 MCM AC	7.40Y	123.3	0.02	1.69	16.54	3	355	95	97	0.04	0.0	8.025	0.162	0	0	0	88
PL.69400	PL.69398	ABC	336 MCM AC	7.40Y	123.3	0.01	1.70	16.54	3	355	95	97	0.02	0.0	8.132	0.108	5	1	1	88
PL.67785	PL.69400	ABC	336 MCM AC	7.40Y	123.3	0.01	1.71	16.30	3	350	93	97	0.02	0.0	8.201	0.069	0	0	0	87
PL.69178	PL.67785	ABC	336 MCM AC	7.40Y	123.3	0.01	1.72	16.30	3	350	93	97	0.01	0.0	8.261	0.061	0	0	0	87
PL.69179	PL.69178	ABC	336 MCM AC	7.40Y	123.3	0.01	1.72	16.30	3	350	93	97	0.01	0.0	8.324	0.063	9	2	2	87
PL.69438	PL.69179	ABC	336 MCM AC	7.40Y	123.3	0.01	1.73	15.91	3	341	91	97	0.02	0.0	8.408	0.084	8	2	1	85
PL.69439	PL.69438	ABC	336 MCM AC	7.40Y	123.3	0.01	1.74	15.55	3	333	89	97	0.02	0.0	8.499	0.091	9	2	1	84
PL.69437	PL.69439	ABC	336 MCM AC	7.39Y	123.2	0.02	1.76	15.15	3	325	86	97	0.03	0.0	8.654	0.155	0	0	0	83
PL.69545	PL.69437	C	#4 ACSR	7.39Y	123.2	0.00	1.76	0.16	0	1	0	100	0.00	0.0	8.659	0.005	0	0	0	1
PD.10385	PL.69545	C	40T	7.39Y	123.2	0.00	1.76	0.16	0	1	0	100	0.00	0.0	8.659	0.005	0	0	0	1
PL.69546	PD.10385	C	#4 ACSR	7.39Y	123.2	0.00	1.76	0.16	0	1	0	100	0.00	0.0	8.714	0.055	1	0	1	1
PL.67786	PL.69437	ABC	336 MCM AC	7.39Y	123.2	0.01	1.77	15.09	3	324	86	97	0.02	0.0	8.776	0.122	6	2	2	82
PL.69430	PL.67786	ABC	336 MCM AC	7.39Y	123.2	0.01	1.78	14.30	3	306	81	97	0.01	0.0	8.854	0.077	0	0	1	76
PL.69431	PL.69430	ABC	336 MCM AC	7.39Y	123.2	0.01	1.79	14.30	3	306	81	97	0.01	0.0	8.908	0.055	0	0	0	75
PL.69432	PL.69431	ABC	336 MCM AC	7.39Y	123.2	0.01	1.79	14.05	3	301	80	97	0.01	0.0	8.964	0.056	7	2	1	72
PL.69433	PL.69432	ABC	336 MCM AC	7.39Y	123.2	0.01	1.80	13.75	3	295	78	97	0.01	0.0	9.019	0.055	0	0	1	71
PL.69541	PL.69433	A	#1/0 ACSR	7.39Y	123.2	0.00	1.80	21.97	10	157	42	97	0.00	0.0	9.023	0.005	0	0	0	24
PD.10382	PL.69541	A	30T	7.39Y	123.2	0.00	1.80	21.97	0	157	42	97	0.00	0.0	9.023	0.005	0	0	0	24
PL.69542	PD.10382	A	#1/0 ACSR	7.39Y	123.2	0.03	1.83	21.97	10	157	42	97	0.03	0.0	9.092	0.069	17	4	2	24
PL.69434	PL.69542	A	#1/0 ACSR	7.39Y	123.1	0.02	1.86	19.59	9	140	37	97	0.02	0.0	9.149	0.057	7	2	1	22
PL.69619	PL.69434	A	6 A (CWC)	7.39Y	123.1	0.00	1.86	3.22	2	23	6	97	0.00	0.0	9.153	0.004	0	0	0	5
PD.10428	PL.69619	A	20T	7.39Y	123.1	0.00	1.86	3.22	0	23	6	97	0.00	0.0	9.153	0.004	0	0	0	5
PL.69620	PD.10428	A	6 A (CWC)	7.39Y	123.1	0.01	1.87	3.22	2	23	6	97	0.00	0.0	9.225	0.072	6	2	2	5

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Balanced Voltage Drop Report
Source: Tyner

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.69182	PL.69620	A	#1/0 ACSR	7.39Y	123.1	0.00	1.87	1.20	1	9	2	98	0.00	0.0	9.250	0.025	9	2	1	1
PL.69249	PL.69620	A	6 A (CWC)	7.39Y	123.1	0.01	1.88	1.22	1	9	2	98	0.00	0.0	9.351	0.126	1	0	1	2
PL.69428	PL.69249	A	6 A (CWC)	7.39Y	123.1	0.00	1.88	1.07	1	8	2	97	0.00	0.0	9.476	0.125	8	2	1	1
PL.69429	PL.69428	A	6 A (CWC)	7.39Y	123.1	0.00	1.88	0.00	0	0	0	100	0.00	0.0	9.641	0.165	0	0	0	0
PL.69183	PL.69429	A	#1/0 ACSR	7.39Y	123.1	0.00	1.88	0.00	0	0	0	100	0.00	0.0	9.773	0.132	0	0	0	0
PL.69412	PL.69434	A	#1/0 ACSR	7.39Y	123.1	0.02	1.88	12.54	5	90	24	97	0.01	0.0	9.214	0.065	0	0	0	14
PL.69539	PL.69412	A	#1/0 ACSR	7.39Y	123.1	0.00	1.88	4.33	2	31	8	97	0.00	0.0	9.218	0.004	0	0	0	2
PD.10381	PL.69539	A	15T	7.39Y	123.1	0.00	1.88	4.33	0	31	8	97	0.00	0.0	9.218	0.004	0	0	0	2
PL.69540	PD.10381	A	#1/0 ACSR	7.39Y	123.1	0.00	1.88	4.33	2	31	8	97	0.00	0.0	9.222	0.004	31	8	2	2
PL.69413	PL.69412	A	#1/0 ACSR	7.39Y	123.1	0.01	1.89	8.21	4	59	16	97	0.00	0.0	9.257	0.043	2	0	1	12
PL.69621	PL.69413	A	#1/0 ACSR	7.39Y	123.1	0.00	1.89	1.82	1	13	3	97	0.00	0.0	9.262	0.005	0	0	0	1
PD.10429	PL.69621	A	15T	7.39Y	123.1	0.00	1.89	1.82	0	13	3	97	0.00	0.0	9.262	0.005	0	0	0	1
PL.69622	PD.10429	A	#1/0 ACSR	7.39Y	123.1	0.00	1.89	1.82	1	13	3	97	0.00	0.0	9.279	0.017	13	3	1	1
PL.69185	PL.69413	A	#1/0 ACSR	7.39Y	123.1	0.01	1.89	4.64	2	33	9	96	0.00	0.0	9.337	0.080	7	2	2	8
PL.69251	PL.69185	A	#1/0 ACSR	7.39Y	123.1	0.01	1.90	2.22	1	16	4	97	0.00	0.0	9.486	0.148	0	0	0	4
PL.69533	PL.69251	A	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.50	0	4	1	97	0.00	0.0	9.489	0.004	0	0	0	1
PD.10378	PL.69533	A	12T	7.39Y	123.1	0.00	1.90	0.50	0	4	1	97	0.00	0.0	9.489	0.004	0	0	0	1
PL.69534	PD.10378	A	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.50	0	4	1	97	0.00	0.0	9.586	0.096	4	1	1	1
PL.69426	PL.69251	A	#1/0 ACSR	7.39Y	123.1	0.00	1.90	1.72	1	12	3	97	0.00	0.0	9.552	0.066	1	0	1	3
PL.69427	PL.69426	A	#1/0 ACSR	7.39Y	123.1	0.00	1.91	1.53	1	11	3	96	0.00	0.0	9.682	0.130	0	0	0	2
PL.69252	PL.69427	A	#1/0 ACSR	7.39Y	123.1	0.00	1.91	0.99	0	7	2	96	0.00	0.0	9.774	0.092	0	0	0	1
PL.69424	PL.69252	A	#1/0 ACSR	7.39Y	123.1	0.00	1.91	0.99	0	7	2	96	0.00	0.0	9.942	0.168	7	2	1	1
PL.69425	PL.69424	A	#1/0 ACSR	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	10.062	0.120	0	0	0	0
PL.69401	PL.69425	A	#1/0 ACSR	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	10.237	0.174	0	0	0	0
PL.69402	PL.69401	A	#1/0 ACSR	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	10.335	0.098	0	0	0	0
PL.69422	PL.69402	A	#1/0 ACSR	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	10.388	0.053	0	0	0	0
PL.69423	PL.69422	A	#1/0 ACSR	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	10.523	0.135	0	0	0	0
PD.8621-B	PL.69423	A	Open	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	10.523	0.135	0	0	0	0
PL.69531	PL.69427	A	#1/0 ACSR	7.39Y	123.1	0.00	1.91	0.54	0	4	1	97	0.00	0.0	9.686	0.004	0	0	0	1
PD.10377	PL.69531	A	20T	7.39Y	123.1	0.00	1.91	0.54	0	4	1	97	0.00	0.0	9.686	0.004	0	0	0	1
PL.69532	PD.10377	A	#1/0 ACSR	7.39Y	123.1	0.00	1.91	0.54	0	4	1	97	0.00	0.0	9.786	0.100	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: Tyner

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.69623	PL.69185	A	#1/0 ACSR	7.39Y	123.1	0.00	1.89	1.44	1	10	3	96	0.00	0.0	9.342	0.005	0	0	0	2
PD.10430	PL.69623	A	20T	7.39Y	123.1	0.00	1.89	1.44	0	10	3	96	0.00	0.0	9.342	0.005	0	0	0	2
PL.69624	PD.10430	A	#1/0 ACSR	7.39Y	123.1	0.00	1.89	1.44	1	10	3	96	0.00	0.0	9.388	0.046	9	2	1	2
PL.69537	PL.69624	A	#1/0 ACSR	7.39Y	123.1	0.00	1.89	0.21	0	1	0	100	0.00	0.0	9.392	0.004	0	0	0	1
PD.10380	PL.69537	A	10T	7.39Y	123.1	0.00	1.89	0.21	0	1	0	100	0.00	0.0	9.392	0.004	0	0	0	1
PL.69538	PD.10380	A	#1/0 ACSR	7.39Y	123.1	0.00	1.89	0.21	0	1	0	100	0.00	0.0	9.467	0.074	1	0	1	1
PL.69184	PL.69413	A	#1/0 ACSR	7.39Y	123.1	0.00	1.89	1.51	1	11	3	96	0.00	0.0	9.262	0.005	0	0	0	2
PD.10384	PL.69184	A	15T	7.39Y	123.1	0.00	1.89	1.51	0	11	3	96	0.00	0.0	9.262	0.005	0	0	0	2
PL.69250	PD.10384	A	#1/0 ACSR	7.39Y	123.1	0.00	1.89	1.51	1	11	3	96	0.00	0.0	9.289	0.027	11	3	2	2
PL.69543	PL.69434	A	#1/0 ACSR	7.39Y	123.1	0.00	1.86	2.85	1	20	5	97	0.00	0.0	9.153	0.004	0	0	0	2
PD.10383	PL.69543	A	20T	7.39Y	123.1	0.00	1.86	2.85	0	20	5	97	0.00	0.0	9.153	0.004	0	0	0	2
PL.69544	PD.10383	A	#1/0 ACSR	7.39Y	123.1	0.00	1.86	2.85	1	20	5	97	0.00	0.0	9.201	0.049	20	5	2	2
PL.69248	PL.69433	ABC	336 MCM AC	7.39Y	123.2	0.00	1.80	6.41	1	137	37	97	0.00	0.0	9.073	0.054	0	0	0	46
PL.69643	PL.69248	C	#1/0 ACSR	7.39Y	123.2	0.00	1.80	19.22	8	137	37	97	0.00	0.0	9.075	0.003	0	0	0	46
PD.10440	PL.69643	C	35L	7.39Y	123.2	0.00	1.80	19.22	55	137	37	97	0.00	0.0	9.075	0.003	0	0	0	46
PL.69644	PD.10440	C	#4 ACSR	7.39Y	123.2	0.02	1.82	19.22	15	137	37	97	0.02	0.0	9.097	0.021	0	0	0	46
PL.69186	PL.69644	C	6 A (CWC)	7.39Y	123.1	0.06	1.88	19.22	14	137	37	97	0.06	0.0	9.167	0.070	0	0	0	46
PL.69187	PL.69186	C	6 A (CWC)	7.38Y	123.0	0.16	2.04	19.22	14	137	36	97	0.16	0.1	9.344	0.178	0	0	0	46
PL.69188	PL.69187	C	6 A (CWC)	7.37Y	122.9	0.07	2.11	19.22	14	137	36	97	0.07	0.0	9.420	0.075	0	0	1	46
PL.69189	PL.69188	C	6 A (CWC)	7.37Y	122.8	0.06	2.17	19.17	14	137	36	97	0.06	0.0	9.488	0.069	0	0	0	45
PL.69453	PL.69189	C	6 A (CWC)	7.37Y	122.8	0.05	2.22	10.68	8	76	20	97	0.03	0.0	9.593	0.104	1	0	1	27
PL.69454	PL.69453	C	6 A (CWC)	7.37Y	122.8	0.01	2.23	10.48	7	75	20	97	0.01	0.0	9.617	0.024	8	2	2	26
PL.69257	PL.69454	C	6 A (CWC)	7.37Y	122.8	0.00	2.23	0.24	0	2	0	100	0.00	0.0	9.691	0.073	2	0	1	2
PL.69190	PL.69257	C	6 A (CWC)	7.37Y	122.8	0.00	2.23	0.01	0	0	0	100	0.00	0.0	9.854	0.163	0	0	1	1
PL.69455	PL.69454	C	6 A (CWC)	7.36Y	122.7	0.03	2.26	9.12	7	65	17	97	0.01	0.0	9.701	0.083	19	5	4	22
PL.69460	PL.69455	C	6 A (CWC)	7.36Y	122.7	0.03	2.28	6.47	5	46	12	97	0.01	0.0	9.791	0.091	5	1	3	18
PL.69461	PL.69460	C	6 A (CWC)	7.36Y	122.7	0.05	2.33	5.74	4	41	11	97	0.01	0.0	9.970	0.178	1	0	1	15
PL.69440	PL.69461	C	6 A (CWC)	7.36Y	122.6	0.03	2.35	5.59	4	40	11	96	0.01	0.0	10.073	0.103	0	0	0	14
PL.69456	PL.69440	C	6 A (CWC)	7.36Y	122.6	0.03	2.39	5.59	4	40	11	96	0.01	0.0	10.203	0.130	3	1	1	14
PL.69457	PL.69456	C	6 A (CWC)	7.35Y	122.6	0.04	2.43	5.22	4	37	10	97	0.01	0.0	10.384	0.182	2	1	1	13
PL.69191	PL.69457	C	#1/0 ACSR	7.35Y	122.6	0.00	2.43	0.00	0	0	0	100	0.00	0.0	10.424	0.040	0	0	0	0

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Balanced Voltage Drop Report
Source: Tyner

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.69258	PL.69457	C	6 A (CWC)	7.35Y	122.5	0.04	2.46	4.93	4	35	9	97	0.01	0.0	10.550	0.165	3	1	5	12
PL.69192	PL.69258	C	6 A (CWC)	7.35Y	122.5	0.02	2.48	4.54	3	32	9	96	0.00	0.0	10.642	0.092	2	1	1	7
PL.69193	PL.69192	C	6 A (CWC)	7.35Y	122.5	0.02	2.50	4.23	3	30	8	97	0.00	0.0	10.728	0.085	0	0	0	6
PL.69196	PL.69193	C	6 A (CWC)	7.35Y	122.5	0.01	2.51	2.12	2	15	4	97	0.00	0.0	10.807	0.079	0	0	0	4
PL.69441	PL.69196	C	6 A (CWC)	7.35Y	122.5	0.01	2.51	2.12	2	15	4	97	0.00	0.0	10.877	0.070	7	2	2	4
PL.69442	PL.69441	C	6 A (CWC)	7.35Y	122.5	0.01	2.52	1.09	1	8	2	97	0.00	0.0	10.981	0.104	0	0	0	2
PL.69198	PL.69442	C	#1/0 ACSR	7.35Y	122.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	11.071	0.090	0	0	1	1
PL.69197	PL.69442	C	#1/0 ACSR	7.35Y	122.5	0.00	2.52	1.09	0	8	2	97	0.00	0.0	11.038	0.057	8	2	1	1
PL.69194	PL.69193	C	#4 ACSR	7.35Y	122.5	0.00	2.50	2.11	2	15	4	97	0.00	0.0	10.779	0.051	15	4	2	2
PL.69195	PL.69193	C	#1/0 ACSR	7.35Y	122.5	0.00	2.50	0.00	0	0	0	100	0.00	0.0	10.893	0.165	0	0	0	0
PL.69446	PL.69189	C	6 A (CWC)	7.37Y	122.8	0.01	2.18	8.49	6	60	16	97	0.01	0.0	9.526	0.037	4	1	2	18
PL.69447	PL.69446	C	6 A (CWC)	7.37Y	122.8	0.03	2.21	7.93	6	56	15	97	0.01	0.0	9.606	0.080	3	1	1	16
PL.69448	PL.69447	C	6 A (CWC)	7.37Y	122.8	0.04	2.24	7.48	5	53	14	97	0.01	0.0	9.712	0.106	0	0	0	15
PL.69253	PL.69448	C	6 A (CWC)	7.36Y	122.7	0.02	2.26	7.03	5	50	13	97	0.01	0.0	9.778	0.066	6	2	1	14
PL.69200	PL.69253	C	6 A (CWC)	7.36Y	122.7	0.02	2.28	6.18	4	44	12	96	0.01	0.0	9.851	0.073	0	0	0	13
PL.69201	PL.69200	C	#1/0 ACSR	7.36Y	122.7	0.00	2.28	0.99	0	7	2	96	0.00	0.0	9.876	0.024	7	2	1	1
PL.69254	PL.69200	C	6 A (CWC)	7.36Y	122.7	0.03	2.31	5.19	4	37	10	97	0.01	0.0	9.975	0.124	7	2	1	12
PL.69202	PL.69254	C	6 A (CWC)	7.36Y	122.7	0.02	2.33	4.16	3	30	8	97	0.00	0.0	10.077	0.103	0	0	1	11
PL.69255	PL.69202	C	6 A (CWC)	7.36Y	122.7	0.01	2.34	1.91	1	14	4	96	0.00	0.0	10.196	0.119	0	0	0	6
PL.69551	PL.69255	C	#4 ACSR	7.36Y	122.7	0.00	2.34	1.91	1	14	4	96	0.00	0.0	10.200	0.004	0	0	0	6
PD.10388	PL.69551	C	15T	7.36Y	122.7	0.00	2.34	1.91	0	14	4	96	0.00	0.0	10.200	0.004	0	0	0	6
PL.69552	PD.10388	C	#4 ACSR	7.36Y	122.6	0.01	2.35	1.91	1	14	4	96	0.00	0.0	10.362	0.162	0	0	0	6
PL.69204	PL.69552	C	#4 ACSR	7.36Y	122.6	0.01	2.37	1.91	1	14	4	96	0.00	0.0	10.494	0.132	0	0	0	6
PL.69403	PL.69204	C	#4 ACSR	7.36Y	122.6	0.01	2.37	1.91	1	14	4	96	0.00	0.0	10.589	0.095	0	0	0	6
PL.69404	PL.69403	C	#4 ACSR	7.36Y	122.6	0.01	2.38	1.91	1	14	4	96	0.00	0.0	10.687	0.098	0	0	0	6
PL.69451	PL.69404	C	#4 ACSR	7.36Y	122.6	0.00	2.38	1.44	1	10	3	96	0.00	0.0	10.740	0.052	3	1	2	5
PL.69452	PL.69451	C	#4 ACSR	7.36Y	122.6	0.01	2.39	1.07	1	8	2	97	0.00	0.0	10.897	0.157	0	0	0	3
PL.69205	PL.69452	C	#1/0 ACSR	7.36Y	122.6	0.00	2.39	0.75	0	5	1	98	0.00	0.0	10.935	0.038	5	1	1	1
PL.69449	PL.69452	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.31	0	2	1	89	0.00	0.0	10.960	0.063	2	0	1	2
PL.69450	PL.69449	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.05	0	0	0	100	0.00	0.0	10.990	0.030	0	0	0	1
PL.69406	PL.69450	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.05	0	0	0	100	0.00	0.0	11.123	0.133	0	0	0	1

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Balanced Voltage Drop Report
Source: Tyner

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.69405	PL.69406	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.05	0	0	0	100	0.00	0.0	11.187	0.065	0	0	1	1
PL.69206	PL.69404	C	#4 ACSR	7.36Y	122.6	0.00	2.38	0.47	0	3	1	95	0.00	0.0	10.780	0.093	0	0	0	1
PL.69208	PL.69206	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.47	0	3	1	95	0.00	0.0	10.924	0.144	0	0	0	1
PL.69256	PL.69208	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.00	0	0	0	100	0.00	0.0	11.039	0.114	0	0	0	0
PL.69211	PL.69256	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.00	0	0	0	100	0.00	0.0	11.083	0.044	0	0	0	0
PL.69210	PL.69256	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.00	0	0	0	100	0.00	0.0	11.080	0.041	0	0	0	0
PL.69209	PL.69208	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.47	0	3	1	95	0.00	0.0	10.965	0.041	3	1	1	1
PL.69207	PL.69206	C	#4 ACSR	7.36Y	122.6	0.00	2.38	0.00	0	0	0	100	0.00	0.0	10.826	0.046	0	0	0	0
PL.69203	PL.69202	C	#4 ACSR	7.36Y	122.7	0.01	2.34	2.25	2	16	4	97	0.00	0.0	10.190	0.112	16	4	4	4
PL.69199	PL.69448	C	#2 ACSR	7.37Y	122.8	0.00	2.24	0.46	0	3	1	95	0.00	0.0	9.743	0.031	3	1	1	1
PL.69535	PL.69431	A	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.73	1	5	1	98	0.00	0.0	8.913	0.005	0	0	0	3
PD.10379	PL.69535	A	40T	7.39Y	123.2	0.00	1.79	0.73	0	5	1	98	0.00	0.0	8.913	0.005	0	0	0	3
PL.69536	PD.10379	A	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.73	1	5	1	98	0.00	0.0	8.924	0.011	3	1	2	3
PL.69181	PL.69536	A	#1/0 ACSR	7.39Y	123.2	0.00	1.79	0.30	0	2	1	89	0.00	0.0	8.944	0.020	2	1	1	1
PL.69180	PL.67786	ABC	336 MCM AC	7.39Y	123.2	0.00	1.77	0.32	0	7	2	96	0.00	0.0	8.821	0.045	7	2	2	2
PL.69617	PL.67786	B	#4 ACSR	7.39Y	123.2	0.00	1.78	0.57	0	4	1	97	0.00	0.0	8.835	0.059	0	0	0	2
PD.10427	PL.69617	B	40T	7.39Y	123.2	0.00	1.78	0.57	0	4	1	97	0.00	0.0	8.835	0.059	0	0	0	2
PL.69618	PD.10427	B	#4 ACSR	7.39Y	123.2	0.00	1.78	0.57	0	4	1	97	0.00	0.0	8.953	0.118	0	0	1	2
PL.69435	PL.69618	B	#4 ACSR	7.39Y	123.2	0.00	1.78	0.55	0	4	1	97	0.00	0.0	9.037	0.084	4	1	1	1
PL.69436	PL.69435	B	#4 ACSR	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	9.129	0.093	0	0	0	0
PL.69549	PL.69177	A	#2 ACSR	7.41Y	123.5	0.00	1.49	0.82	0	6	2	95	0.00	0.0	6.390	0.005	0	0	0	1
PD.10387	PL.69549	A	40T	7.41Y	123.5	0.00	1.49	0.82	0	6	2	95	0.00	0.0	6.390	0.005	0	0	0	1
PL.69550	PD.10387	A	#2 ACSR	7.41Y	123.5	0.00	1.49	0.82	0	6	2	95	0.00	0.0	6.404	0.014	6	2	1	1
PL.69645	PL.69166	B	#4 ACSR	7.41Y	123.5	0.00	1.46	2.77	2	20	5	97	0.00	0.0	6.203	0.003	0	0	0	7
PD.10441	PL.69645	B	35L	7.41Y	123.5	0.00	1.46	2.77	8	20	5	97	0.00	0.0	6.203	0.003	0	0	0	7
PL.69646	PD.10441	B	#4 ACSR	7.41Y	123.5	0.01	1.47	2.77	2	20	5	97	0.00	0.0	6.268	0.066	7	2	2	7
PL.69443	PL.69646	B	#4 ACSR	7.41Y	123.5	0.01	1.48	1.81	1	13	3	97	0.00	0.0	6.382	0.113	0	0	0	5
PL.69376	PL.69443	B	#4 ACSR	7.41Y	123.5	0.01	1.49	1.81	1	13	3	97	0.00	0.0	6.483	0.101	0	0	0	5
PL.69167	PL.69376	B	#4 ACSR	7.41Y	123.5	0.01	1.50	1.81	1	13	3	97	0.00	0.0	6.665	0.181	0	0	0	5
PL.69377	PL.69167	B	#4 ACSR	7.41Y	123.5	0.01	1.51	1.81	1	13	3	97	0.00	0.0	6.777	0.112	0	0	1	5
PL.69168	PL.69377	B	6 A (CWC)	7.41Y	123.5	0.01	1.52	1.80	1	13	3	97	0.00	0.0	6.872	0.095	1	0	1	4

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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.69169	PL.69168	B	6 A (CWC)	7.41Y	123.5	0.01	1.53	1.73	1	12	3	97	0.00	0.0	7.055	0.184	0	0	0	3
PL.69378	PL.69169	B	6 A (CWC)	7.41Y	123.5	0.01	1.54	1.73	1	12	3	97	0.00	0.0	7.181	0.126	1	0	1	3
PL.67778	PL.69378	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.39	0	3	1	95	0.00	0.0	7.289	0.108	0	0	0	1
PL.69379	PL.67778	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.39	0	3	1	95	0.00	0.0	7.373	0.084	0	0	0	1
PL.69173	PL.69379	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.39	0	3	1	95	0.00	0.0	7.439	0.067	3	1	1	1
PL.69629	PL.69379	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.377	0.005	0	0	0	0
PD.10433-A	PL.69629	B	Closed	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.377	0.005	0	0	0	0
PD.10433-B	PD.10433-A	B	Closed	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.377	0.005	0	0	0	0
PL.69630	PD.10433-B	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.480	0.103	0	0	0	0
PL.69409	PL.69630	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.575	0.095	0	0	0	0
PL.69380	PL.69409	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.747	0.172	0	0	0	0
PL.69627	PL.69380	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.752	0.005	0	0	0	0
PD.10432-A	PL.69627	B	Closed	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.752	0.005	0	0	0	0
PD.10432-B	PD.10432-A	B	Closed	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.752	0.005	0	0	0	0
PL.69628	PD.10432-B	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.855	0.103	0	0	0	0
PL.69410	PL.69628	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.943	0.087	0	0	0	0
PL.69381	PL.69410	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.022	0.080	0	0	0	0
PL.69411	PL.69381	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.141	0.119	0	0	0	0
PL.69382	PL.69411	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.218	0.077	0	0	0	0
PL.69176	PL.69382	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.324	0.106	0	0	0	0
PL.69383	PL.69176	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.481	0.156	0	0	0	0
PL.69174	PL.69383	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.603	0.122	0	0	0	0
PL.69384	PL.69174	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.730	0.127	0	0	0	0
PL.69175	PL.69384	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.889	0.160	0	0	0	0
PL.69385	PL.69175	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.999	0.110	0	0	0	0
PL.69386	PL.69385	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	9.124	0.125	0	0	0	0
PL.67781	PL.69384	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.859	0.129	0	0	0	0
PL.67780	PL.69383	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	8.645	0.165	0	0	0	0
PL.67779	PL.69380	B	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	7.917	0.170	0	0	0	0
PL.69172	PL.69378	B	#1/0 ACSR	7.41Y	123.5	0.00	1.54	1.19	1	9	2	98	0.00	0.0	7.200	0.019	9	2	1	1
PL.69170	PL.69168	B	#4 ACSR	7.41Y	123.5	0.00	1.52	0.00	0	0	0	100	0.00	0.0	7.033	0.162	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: Tyner

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.69468	PL.69241	B	#4 ACSR	7.43Y	123.8	0.00	1.18	0.93	1	7	2	96	0.00	0.0	4.377	0.029	0	0	0	1
PL.69559	PL.69468	B	#4 ACSR	7.43Y	123.8	0.00	1.18	0.93	1	7	2	96	0.00	0.0	4.382	0.005	0	0	0	1
PD.10394	PL.69559	B	40T	7.43Y	123.8	0.00	1.18	0.93	0	7	2	96	0.00	0.0	4.382	0.005	0	0	0	1
PL.69560	PD.10394	B	#4 ACSR	7.43Y	123.8	0.00	1.18	0.93	1	7	2	96	0.00	0.0	4.432	0.050	0	0	0	1
PL.69467	PL.69560	B	#4 ACSR	7.43Y	123.8	0.00	1.19	0.93	1	7	2	96	0.00	0.0	4.463	0.031	7	2	1	1
PL.69155	PL.69470	B	#4 ACSR	7.43Y	123.8	0.00	1.17	0.86	1	6	2	95	0.00	0.0	4.340	0.044	0	0	0	1
PL.69561	PL.69155	B	#4 ACSR	7.43Y	123.8	0.00	1.17	0.86	1	6	2	95	0.00	0.0	4.345	0.005	0	0	0	1
PD.10395	PL.69561	B	40T	7.43Y	123.8	0.00	1.17	0.86	0	6	2	95	0.00	0.0	4.345	0.005	0	0	0	1
PL.69562	PD.10395	B	#4 ACSR	7.43Y	123.8	0.00	1.18	0.86	1	6	2	95	0.00	0.0	4.460	0.115	0	0	0	1
PL.69156	PL.69562	B	#4 ACSR	7.43Y	123.8	0.00	1.18	0.86	1	6	2	95	0.00	0.0	4.505	0.045	0	0	0	1
PL.69157	PL.69156	B	#1/0 ACSR	7.43Y	123.8	0.00	1.18	0.86	0	6	2	95	0.00	0.0	4.656	0.151	6	2	1	1
PL.69154	PL.69153	C	#1/0 ACSR	7.43Y	123.9	0.00	1.09	0.10	0	1	0	100	0.00	0.0	3.912	0.076	1	0	1	1
PL.69146	PL.69145	C	#1/0 ACSR	7.44Y	123.9	0.00	1.08	0.00	0	0	0	100	0.00	0.0	3.785	0.026	0	0	0	0
PL.69144	PL.69143	ABC	336 MCM AC	7.44Y	123.9	0.00	1.07	0.85	0	18	5	96	0.00	0.0	3.793	0.064	0	0	0	8
PL.69147	PL.69144	B	#4 ACSR	7.44Y	123.9	0.00	1.08	2.56	2	18	5	96	0.00	0.0	3.826	0.033	0	0	0	7
PL.69635	PL.69147	B	6 A (CWC)	7.44Y	123.9	0.00	1.08	2.56	2	18	5	96	0.00	0.0	3.829	0.003	0	0	0	7
PD.10436	PL.69635	B	35L	7.44Y	123.9	0.00	1.08	2.56	7	18	5	96	0.00	0.0	3.829	0.003	0	0	0	7
PL.69636	PD.10436	B	6 A (CWC)	7.44Y	123.9	0.01	1.08	2.56	2	18	5	96	0.00	0.0	3.879	0.050	0	0	0	7
PL.69417	PL.69636	B	6 A (CWC)	7.43Y	123.9	0.01	1.09	2.56	2	18	5	96	0.00	0.0	3.965	0.086	0	0	0	6
PL.69358	PL.69417	B	6 A (CWC)	7.43Y	123.9	0.01	1.11	2.56	2	18	5	96	0.00	0.0	4.087	0.123	0	0	0	6
PL.69473	PL.69358	B	6 A (CWC)	7.43Y	123.9	0.01	1.11	2.56	2	18	5	96	0.00	0.0	4.154	0.066	2	1	1	6
PL.69474	PL.69473	B	6 A (CWC)	7.43Y	123.9	0.01	1.13	2.29	2	16	4	97	0.00	0.0	4.286	0.133	0	0	0	5
PL.69407	PL.69474	B	6 A (CWC)	7.43Y	123.9	0.01	1.13	2.29	2	16	4	97	0.00	0.0	4.358	0.072	0	0	0	5
PL.69359	PL.69407	B	6 A (CWC)	7.43Y	123.9	0.01	1.14	2.29	2	16	4	97	0.00	0.0	4.455	0.097	0	0	0	5
PL.69419	PL.69359	B	6 A (CWC)	7.43Y	123.8	0.01	1.15	2.29	2	16	4	97	0.00	0.0	4.539	0.085	0	0	0	5
PL.69420	PL.69419	B	6 A (CWC)	7.43Y	123.8	0.01	1.17	2.29	2	16	4	97	0.00	0.0	4.654	0.114	0	0	0	5
PL.69151	PL.69420	B	6 A (CWC)	7.43Y	123.8	0.01	1.18	1.06	1	8	2	97	0.00	0.0	4.856	0.203	0	0	0	4
PL.69471	PL.69151	B	6 A (CWC)	7.43Y	123.8	0.00	1.18	1.06	1	8	2	97	0.00	0.0	4.935	0.079	2	1	1	4
PL.69472	PL.69471	B	6 A (CWC)	7.43Y	123.8	0.00	1.18	0.78	1	6	1	99	0.00	0.0	5.036	0.101	0	0	0	3
PL.69360	PL.69472	B	6 A (CWC)	7.43Y	123.8	0.01	1.19	0.78	1	6	1	99	0.00	0.0	5.190	0.153	0	0	1	3
PL.69152	PL.69360	B	#1/0 ACSR	7.43Y	123.8	0.00	1.19	0.78	0	6	1	99	0.00	0.0	5.284	0.094	6	1	2	2

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

Balanced Voltage Drop Report
Source: Tyner

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.69150	PL.69420	B	6 A (CWC)	7.43Y	123.8	0.00	1.17	1.23	1	9	2	98	0.00	0.0	4.751	0.098	9	2	1	1
PL.69148	PL.69636	B	#4 ACSR	7.44Y	123.9	0.00	1.08	0.00	0	0	0	100	0.00	0.0	3.993	0.114	0	0	0	1
PL.69212	PL.69148	B	#4 ACSR	7.44Y	123.9	0.00	1.08	0.00	0	0	0	100	0.00	0.0	4.093	0.100	0	0	1	1
PL.69563	PL.69144	A	#1/0 ACSR	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	3.797	0.004	0	0	0	1
PD.10396	PL.69563	A	40T	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	3.797	0.004	0	0	0	1
PL.69564	PD.10396	A	#1/0 ACSR	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	3.832	0.034	0	0	1	1
PL.69567	PL.69236	C	#1/0 ACSR	7.44Y	124.0	0.00	1.03	1.98	1	14	4	96	0.00	0.0	3.530	0.005	0	0	0	7
PD.10398	PL.69567	C	30T	7.44Y	124.0	0.00	1.03	1.98	0	14	4	96	0.00	0.0	3.530	0.005	0	0	0	7
PL.69568	PD.10398	C	#1/0 ACSR	7.44Y	124.0	0.00	1.04	1.98	1	14	4	96	0.00	0.0	3.614	0.084	3	1	3	7
PL.69141	PL.69568	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	1.60	1	11	3	96	0.00	0.0	3.654	0.040	6	2	2	4
PL.69238	PL.69141	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	0.55	0	4	1	97	0.00	0.0	3.729	0.076	4	1	1	1
PL.69142	PL.69141	C	#4 ACSR	7.44Y	124.0	0.00	1.04	0.18	0	1	0	100	0.00	0.0	3.764	0.111	1	0	1	1
PL.69577	PL.69482	A	#4 ACSR	7.45Y	124.1	0.00	0.91	0.95	1	7	2	96	0.00	0.0	2.888	0.005	0	0	0	2
PD.10403	PL.69577	A	40T	7.45Y	124.1	0.00	0.91	0.95	0	7	2	96	0.00	0.0	2.888	0.005	0	0	0	2
PL.69578	PD.10403	A	#4 ACSR	7.45Y	124.1	0.00	0.91	0.95	1	7	2	96	0.00	0.0	2.908	0.021	7	2	2	2
PL.69479	PL.69483	ABC	#1/0 ACSR	7.45Y	124.2	0.00	0.82	2.45	1	53	14	97	0.00	0.0	2.525	0.061	6	2	1	8
PL.69480	PL.69479	ABC	#1/0 ACSR	7.45Y	124.2	0.01	0.82	2.16	1	47	12	97	0.00	0.0	2.658	0.133	0	0	0	7
PL.69227	PL.69480	ABC	#1/0 ACSR	7.45Y	124.2	0.00	0.83	1.84	1	40	10	97	0.00	0.0	2.769	0.111	0	0	0	6
PL.69124	PL.69227	ABC	#1/0 ACSR	7.45Y	124.2	0.00	0.83	1.26	1	27	7	97	0.00	0.0	2.906	0.137	0	0	0	4
PL.69273	PL.69124	ABC	#1/0 ACSR	7.45Y	124.2	0.00	0.83	1.26	1	27	7	97	0.00	0.0	3.058	0.152	11	3	2	4
PL.69125	PL.69273	A	#4 ACSR	7.45Y	124.2	0.00	0.83	2.29	2	16	4	97	0.00	0.0	3.062	0.004	0	0	0	2
PD.10392	PL.69125	A	25T	7.45Y	124.2	0.00	0.83	2.29	0	16	4	97	0.00	0.0	3.062	0.004	0	0	0	2
PL.69228	PD.10392	A	#4 ACSR	7.45Y	124.2	0.00	0.83	1.20	1	9	2	98	0.00	0.0	3.113	0.051	9	2	1	1
PL.69414	PD.10392	A	6 A (CWC)	7.45Y	124.2	0.00	0.83	1.09	1	8	2	97	0.00	0.0	3.121	0.059	8	2	1	1
PL.69465	PL.69273	ABC	#1/0 ACSR	7.45Y	124.2	0.00	0.83	0.00	0	0	0	100	0.00	0.0	3.103	0.045	0	0	0	0
PL.69466	PL.69465	ABC	#1/0 ACSR	7.45Y	124.2	0.00	0.83	0.00	0	0	0	100	0.00	0.0	3.165	0.062	0	0	0	0
PD.4145-B	PL.69466	ABC	Open	7.45Y	124.2	0.00	0.83	0.00	0	0	0	100	0.00	0.0	3.165	0.062	0	0	0	0
PL.69626	PL.69227	B	6 A (CWC)	7.45Y	124.2	0.00	0.83	1.74	1	13	3	97	0.00	0.0	2.774	0.005	0	0	0	2
PD.10431	PL.69626	B	65T	7.45Y	124.2	0.00	0.83	1.74	0	13	3	97	0.00	0.0	2.774	0.005	0	0	0	2
PL.69625	PD.10431	B	6 A (CWC)	7.45Y	124.2	0.00	0.83	1.74	1	13	3	97	0.00	0.0	2.812	0.038	13	3	2	2
PL.69575	PL.69480	A	6 A (CWC)	7.45Y	124.2	0.00	0.82	0.99	1	7	2	96	0.00	0.0	2.663	0.005	0	0	0	1

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

Balanced Voltage Drop Report
Source: Tyner

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.10402	PL.69575	A	50T	7.45Y	124.2	0.00	0.82	0.99	0	7	2	96	0.00	0.0	2.663	0.005	0	0	0	1
PL.69576	PD.10402	A	6 A (CWC)	7.45Y	124.2	0.00	0.83	0.99	1	7	2	96	0.00	0.0	2.731	0.068	0	0	0	1
PL.69123	PL.69576	A	#1/0 ACSR	7.45Y	124.2	0.00	0.83	0.99	0	7	2	96	0.00	0.0	2.768	0.037	7	2	1	1
PL.69639	PL.69500	A	6 A (CWC)	7.46Y	124.3	0.00	0.74	8.64	6	62	17	96	0.00	0.0	2.184	0.003	0	0	0	19
PD.10438	PL.69639	A	35L	7.46Y	124.3	0.00	0.74	8.64	25	62	17	96	0.00	0.0	2.184	0.003	0	0	0	19
PL.69640	PD.10438	A	6 A (CWC)	7.45Y	124.2	0.04	0.78	8.64	6	62	17	96	0.02	0.0	2.284	0.100	3	1	4	19
PL.69105	PL.69640	A	#4 ACSR	7.45Y	124.2	0.00	0.78	0.50	0	4	1	97	0.00	0.0	2.335	0.051	2	0	1	3
PL.69106	PL.69105	A	#4 ACSR	7.45Y	124.2	0.00	0.78	0.28	0	2	1	89	0.00	0.0	2.361	0.026	0	0	1	2
PL.69589	PL.69106	A	#1/0 ACSR	7.45Y	124.2	0.00	0.78	0.27	0	2	1	89	0.00	0.0	2.365	0.004	0	0	0	1
PD.10413	PL.69589	A	10T	7.45Y	124.2	0.00	0.78	0.27	0	2	1	89	0.00	0.0	2.365	0.004	0	0	0	1
PL.69590	PD.10413	A	#1/0 ACSR	7.45Y	124.2	0.00	0.78	0.27	0	2	1	89	0.00	0.0	2.424	0.060	0	0	0	1
PL.69497	PL.69590	A	#1/0 ACSR	7.45Y	124.2	0.00	0.78	0.27	0	2	1	89	0.00	0.0	2.519	0.095	2	1	1	1
PL.69222	PL.69640	A	6 A (CWC)	7.45Y	124.2	0.05	0.83	7.69	5	55	15	96	0.02	0.0	2.440	0.156	0	0	0	12
PL.69107	PL.69222	A	6 A (CWC)	7.45Y	124.2	0.01	0.85	3.57	3	26	7	97	0.00	0.0	2.532	0.092	10	3	1	3
PL.69108	PL.69107	A	#4 ACSR	7.45Y	124.2	0.00	0.85	2.15	2	15	4	97	0.00	0.0	2.553	0.021	0	0	0	2
PL.69109	PL.69108	A	#2 ACSR	7.45Y	124.1	0.01	0.85	2.15	1	15	4	97	0.00	0.0	2.640	0.087	0	0	0	2
PL.69110	PL.69109	A	#1/0 ACSR	7.45Y	124.1	0.00	0.85	0.00	0	0	0	100	0.00	0.0	2.743	0.103	0	0	1	1
PL.69111	PL.69109	A	#1/0 ACSR	7.45Y	124.1	0.00	0.85	2.15	1	15	4	97	0.00	0.0	2.654	0.015	15	4	1	1
PL.69223	PL.69108	A	#4 ACSR	7.45Y	124.2	0.00	0.85	0.00	0	0	0	100	0.00	0.0	2.591	0.038	0	0	0	0
PL.69224	PL.69222	A	6 A (CWC)	7.45Y	124.1	0.02	0.85	4.12	3	30	8	97	0.00	0.0	2.536	0.096	0	0	0	9
PL.69263	PL.69224	A	6 A (CWC)	7.45Y	124.1	0.02	0.87	4.12	3	30	8	97	0.00	0.0	2.633	0.097	0	0	0	9
PL.69112	PL.69263	A	#4 ACSR	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	2.688	0.055	0	0	0	0
PL.69506	PL.69263	A	6 A (CWC)	7.45Y	124.1	0.02	0.89	4.12	3	30	8	97	0.00	0.0	2.718	0.085	1	0	1	9
PL.69507	PL.69506	A	6 A (CWC)	7.45Y	124.1	0.02	0.91	3.92	3	28	7	97	0.00	0.0	2.836	0.118	0	0	0	8
PL.69114	PL.69507	A	6 A (CWC)	7.44Y	124.1	0.02	0.92	3.92	3	28	7	97	0.00	0.0	2.929	0.093	0	0	0	8
PL.69265	PL.69114	A	6 A (CWC)	7.44Y	124.1	0.02	0.94	3.92	3	28	7	97	0.00	0.0	3.033	0.104	0	0	0	8
PL.69264	PL.69265	A	6 A (CWC)	7.44Y	124.0	0.02	0.96	3.92	3	28	7	97	0.00	0.0	3.159	0.126	0	0	0	8
PL.69225	PL.69264	A	6 A (CWC)	7.44Y	124.0	0.03	0.99	3.92	3	28	7	97	0.01	0.0	3.334	0.175	2	1	1	8
PL.69116	PL.69225	A	6 A (CWC)	7.44Y	124.0	0.01	1.00	3.64	3	26	7	97	0.00	0.0	3.374	0.039	0	0	0	7
PL.69117	PL.69116	A	#4 ACSR	7.44Y	124.0	0.02	1.02	3.64	3	26	7	97	0.00	0.0	3.495	0.122	0	0	0	7
PL.69118	PL.69117	A	#4 ACSR	7.44Y	124.0	0.00	1.02	1.09	1	8	2	97	0.00	0.0	3.556	0.061	8	2	3	4

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

Balanced Voltage Drop Report
Source: Tyner

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.69603	PL.69118	A	#1/0 ACSR	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	3.561	0.005	0	0	0	1
PD.10420	PL.69603	A	15T	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	3.561	0.005	0	0	0	1
PL.69604	PD.10420	A	#1/0 ACSR	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	3.671	0.110	0	0	0	1
PL.69266	PL.69604	A	#1/0 ACSR	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	3.762	0.091	0	0	1	1
PL.69226	PL.69117	A	#4 ACSR	7.44Y	124.0	0.02	1.04	2.55	2	18	5	96	0.00	0.0	3.677	0.182	0	0	0	3
PL.69267	PL.69226	A	#4 ACSR	7.44Y	123.9	0.02	1.06	2.55	2	18	5	96	0.00	0.0	3.859	0.181	0	0	0	3
PL.69268	PL.69267	A	#4 ACSR	7.44Y	123.9	0.01	1.07	2.55	2	18	5	96	0.00	0.0	3.943	0.085	0	0	0	3
PL.69119	PL.69268	A	#4 ACSR	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	4.007	0.064	0	0	0	0
PL.69120	PL.69268	A	#4 ACSR	7.43Y	123.9	0.01	1.09	2.55	2	18	5	96	0.00	0.0	4.073	0.130	0	0	0	3
PL.69269	PL.69120	A	#4 ACSR	7.43Y	123.9	0.02	1.11	2.55	2	18	5	96	0.00	0.0	4.255	0.182	0	0	0	3
PL.69270	PL.69269	A	#4 ACSR	7.43Y	123.9	0.01	1.12	2.55	2	18	5	96	0.00	0.0	4.376	0.122	0	0	0	3
PL.69271	PL.69270	A	#4 ACSR	7.43Y	123.9	0.01	1.13	2.55	2	18	5	96	0.00	0.0	4.516	0.140	5	1	1	3
PL.69272	PL.69271	A	#4 ACSR	7.43Y	123.9	0.00	1.14	1.86	1	13	4	96	0.00	0.0	4.572	0.056	3	1	1	2
PL.69122	PL.69272	A	#4 ACSR	7.43Y	123.9	0.00	1.14	1.49	1	11	3	96	0.00	0.0	4.629	0.056	11	3	1	1
PL.69121	PL.69272	A	#4 ACSR	7.43Y	123.9	0.00	1.14	0.00	0	0	0	100	0.00	0.0	4.627	0.054	0	0	0	0
PL.69113	PL.69507	A	6 A (CWC)	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	2.907	0.071	0	0	0	0
PL.69591	PL.69262	A	6 A (CWC)	7.46Y	124.3	0.00	0.69	0.04	0	0	0	100	0.00	0.0	2.032	0.005	0	0	0	2
PD.10414	PL.69591	A	65T	7.46Y	124.3	0.00	0.69	0.04	0	0	0	100	0.00	0.0	2.032	0.005	0	0	0	2
PL.69592	PD.10414	A	6 A (CWC)	7.46Y	124.3	0.00	0.69	0.04	0	0	0	100	0.00	0.0	2.074	0.043	0	0	2	2
PL.69593	PL.69261	C	#4 ACSR	7.46Y	124.4	0.00	0.59	0.58	0	4	1	97	0.00	0.0	1.692	0.005	0	0	0	1
PD.10415	PL.69593	C	65T	7.46Y	124.4	0.00	0.59	0.58	0	4	1	97	0.00	0.0	1.692	0.005	0	0	0	1
PL.69594	PD.10415	C	#4 ACSR	7.46Y	124.4	0.00	0.59	0.58	0	4	1	97	0.00	0.0	1.771	0.079	4	1	1	1
PL.69096	PL.69218	A	#4 ACSR	7.48Y	124.6	0.01	0.40	11.97	9	87	23	97	0.01	0.0	1.037	0.021	3	1	1	20
PL.69641	PL.69096	A	#4 ACSR	7.48Y	124.6	0.00	0.40	11.59	9	84	22	97	0.00	0.0	1.039	0.003	0	0	0	19
PD.10439	PL.69641	A	50L	7.48Y	124.6	0.00	0.40	11.59	23	84	22	97	0.00	0.0	1.039	0.003	0	0	0	19
PL.69642	PD.10439	A	#4 ACSR	7.47Y	124.6	0.02	0.42	11.59	9	84	22	97	0.01	0.0	1.076	0.037	0	0	0	19
PL.69097	PL.69642	A	#4 ACSR	7.47Y	124.6	0.02	0.44	11.59	9	84	22	97	0.01	0.0	1.113	0.037	0	0	0	19
PL.69517	PL.69097	A	#4 ACSR	7.47Y	124.5	0.02	0.46	11.08	9	80	21	97	0.01	0.0	1.151	0.038	8	2	2	18
PL.69518	PL.69517	A	#4 ACSR	7.47Y	124.5	0.01	0.46	10.04	8	73	19	97	0.00	0.0	1.170	0.019	0	0	0	16
PL.69099	PL.69518	A	#4 ACSR	7.47Y	124.5	0.01	0.47	4.05	3	29	8	96	0.00	0.0	1.231	0.061	20	5	3	4
PL.69512	PL.69099	A	#1/0 ACSR	7.47Y	124.5	0.00	0.47	1.21	1	9	2	98	0.00	0.0	1.249	0.018	0	0	0	1

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

Balanced Voltage Drop Report
Source: Tyner

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.69513	PL.69512	A	#1/0 ACSR	7.47Y	124.5	0.00	0.47	1.21	1	9	2	98	0.00	0.0	1.295	0.046	9	2	1	1
PL.69219	PL.69518	A	#4 ACSR	7.47Y	124.5	0.01	0.48	5.99	5	43	11	97	0.00	0.0	1.227	0.057	8	2	4	12
PL.69510	PL.69219	A	#4 ACSR	7.47Y	124.5	0.01	0.49	4.92	4	36	9	97	0.00	0.0	1.275	0.048	10	3	1	8
PL.69511	PL.69510	A	#4 ACSR	7.47Y	124.5	0.00	0.49	3.51	3	25	7	96	0.00	0.0	1.303	0.028	5	1	3	7
PL.69220	PL.69511	A	#4 ACSR	7.47Y	124.5	0.00	0.49	0.81	1	6	2	95	0.00	0.0	1.338	0.035	0	0	0	1
PL.69503	PL.69220	A	#4 ACSR	7.47Y	124.5	0.00	0.49	0.81	1	6	2	95	0.00	0.0	1.410	0.072	0	0	0	1
PL.69504	PL.69503	A	#4 ACSR	7.47Y	124.5	0.00	0.50	0.81	1	6	2	95	0.00	0.0	1.459	0.049	6	2	1	1
PL.69505	PL.69504	A	#4 ACSR	7.47Y	124.5	0.00	0.50	0.00	0	0	0	100	0.00	0.0	1.514	0.055	0	0	0	0
PL.69100	PL.69511	A	#4 ACSR	7.47Y	124.5	0.01	0.50	2.06	2	15	4	97	0.00	0.0	1.373	0.070	0	0	0	3
PL.69102	PL.69100	A	#4 ACSR	7.47Y	124.5	0.00	0.50	1.13	1	8	2	97	0.00	0.0	1.415	0.042	5	1	1	2
PL.72950	PL.69102	A	#1/0 ACSR	7.47Y	124.5	0.00	0.50	0.49	0	4	1	97	0.00	0.0	1.444	0.029	4	1	1	1
PL.69101	PL.69100	A	#4 ACSR	7.47Y	124.5	0.00	0.50	0.93	1	7	2	96	0.00	0.0	1.410	0.037	7	2	1	1
PL.69098	PL.69097	A	#1/0 ACSR	7.47Y	124.6	0.00	0.44	0.51	0	4	1	97	0.00	0.0	1.130	0.017	4	1	1	1
PL.69609	PL.69090	A	#4 ACSR	7.49Y	124.8	0.00	0.23	0.84	1	6	2	95	0.00	0.0	0.582	0.005	0	0	0	1
PD.10423	PL.69609	A	40T	7.49Y	124.8	0.00	0.23	0.84	0	6	2	95	0.00	0.0	0.582	0.005	0	0	0	1
PL.69610	PD.10423	A	#4 ACSR	7.49Y	124.8	0.00	0.23	0.84	1	6	2	95	0.00	0.0	0.629	0.047	6	2	1	1
PL.69605	PL.69214	C	#4 ACSR	7.49Y	124.8	0.00	0.17	2.00	2	15	4	97	0.00	0.0	0.424	0.005	0	0	0	3
PD.10421	PL.69605	C	65T	7.49Y	124.8	0.00	0.17	2.00	0	15	4	97	0.00	0.0	0.424	0.005	0	0	0	3
PL.69606	PD.10421	C	#4 ACSR	7.49Y	124.8	0.00	0.17	2.00	2	15	4	97	0.00	0.0	0.463	0.039	0	0	0	3
PL.69524	PL.69606	C	#4 ACSR	7.49Y	124.8	0.00	0.17	2.00	2	15	4	97	0.00	0.0	0.480	0.018	11	3	1	3
PL.69091	PL.69524	C	#1/0 ACSR	7.49Y	124.8	0.00	0.17	0.42	0	3	1	95	0.00	0.0	0.504	0.024	3	1	2	2
PL.68332	Tyner	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	35.04	7	740	271	94	0.00	0.0	0.003	0.003	0	0	0	81
PL.72917	PL.68332	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	35.04	7	740	271	94	0.00	0.0	0.005	0.002	0	0	0	81
---------- Feeder No. 4 (Annville F4) Beginning with Device PD.11200 ----------																				
PD.11200	PL.72917	ABC	360VWE	7.50Y	125.0	0.00	0.00	35.04	0	740	271	94	0.00	0.0	0.005	0.002	0	0	0	81
PL.72918	PD.11200	ABC	336 MCM AC	7.50Y	125.0	0.02	0.02	35.04	7	740	271	94	0.07	0.0	0.071	0.066	13	3	1	81
PL.70444	PL.72918	ABC	336 MCM AC	7.50Y	125.0	0.01	0.03	34.46	7	728	268	94	0.03	0.0	0.097	0.026	0	0	0	80
PL.69318	PL.70444	ABC	336 MCM AC	7.50Y	125.0	0.01	0.04	33.07	6	697	260	94	0.03	0.0	0.135	0.038	6	2	1	74
PL.70492	PL.69318	A	6 A (CWC)	7.50Y	125.0	0.00	0.04	7.71	6	56	15	97	0.00	0.0	0.139	0.004	0	0	0	9

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

Balanced Voltage Drop Report
Source: Tyner

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.10554	PL.70492	A	65T	7.50Y	125.0	0.00	0.04	7.71	0	56	15	97	0.00	0.0	0.139	0.004	0	0	0	9
PL.70493	PD.10554	A	6 A (CWC)	7.50Y	124.9	0.02	0.06	7.71	6	56	15	97	0.01	0.0	0.201	0.061	13	3	1	9
PL.69320	PL.70493	A	6 A (CWC)	7.50Y	124.9	0.02	0.08	5.26	4	38	10	97	0.00	0.0	0.275	0.074	0	0	0	7
PL.70449	PL.69320	A	6 A (CWC)	7.49Y	124.9	0.02	0.09	5.26	4	38	10	97	0.01	0.0	0.354	0.079	0	0	0	7
PL.70450	PL.70449	A	#4 ACSR	7.49Y	124.9	0.00	0.10	0.15	0	1	0	100	0.00	0.0	0.399	0.045	1	0	1	1
PL.69336	PL.70450	A	#4 ACSR	7.49Y	124.9	0.00	0.10	0.00	0	0	0	100	0.00	0.0	0.418	0.019	0	0	0	0
PL.69337	PL.69336	A	#4 ACSR	7.49Y	124.9	0.00	0.10	0.00	0	0	0	100	0.00	0.0	0.445	0.027	0	0	0	0
PL.69321	PL.70449	A	6 A (CWC)	7.49Y	124.9	0.04	0.13	5.11	4	37	10	97	0.01	0.0	0.513	0.160	0	0	1	6
PL.70451	PL.69321	A	6 A (CWC)	7.49Y	124.8	0.03	0.16	5.08	4	37	10	97	0.01	0.0	0.633	0.119	0	0	0	5
PL.69334	PL.70451	A	6 A (CWC)	7.49Y	124.8	0.00	0.16	5.08	4	37	10	97	0.00	0.0	0.648	0.016	8	2	1	5
PL.69335	PL.69334	A	6 A (CWC)	7.49Y	124.8	0.00	0.17	3.97	3	29	8	96	0.00	0.0	0.674	0.026	0	0	0	4
PL.70490	PL.69335	A	1/0 AL URD	7.49Y	124.8	0.00	0.17	3.97	2	29	8	96	0.00	0.0	0.679	0.004	0	0	0	4
PD.10553	PL.70490	A	40T	7.49Y	124.8	0.00	0.17	3.97	0	29	8	96	0.00	0.0	0.679	0.004	0	0	0	4
PL.70491	PD.10553	A	1/0 AL URD	7.49Y	124.8	0.00	0.17	3.97	2	29	8	96	0.00	0.0	0.713	0.034	0	0	0	4
PD.10552	PL.70491	A	25T	7.49Y	124.8	0.00	0.17	3.97	0	29	8	96	0.00	0.0	0.713	0.034	0	0	0	4
PL.70489	PD.10552	A	1/0 AL URD	7.49Y	124.8	0.00	0.17	3.97	2	29	8	96	0.00	0.0	0.717	0.004	6	2	2	4
PL.70452	PL.70489	A	#2 ACSR	7.49Y	124.8	0.00	0.17	3.12	2	23	6	97	0.00	0.0	0.730	0.013	0	0	0	2
PL.70453	PL.70452	A	#2 ACSR	7.49Y	124.8	0.00	0.18	3.12	2	23	6	97	0.00	0.0	0.774	0.043	0	0	0	2
PL.70455	PL.70453	A	#4 ACSR	7.49Y	124.8	0.01	0.19	3.12	2	23	6	97	0.00	0.0	0.860	0.086	12	3	1	2
PL.70454	PL.70455	A	#1/0 ACSR	7.49Y	124.8	0.00	0.19	1.45	1	11	3	96	0.00	0.0	0.893	0.033	11	3	1	1
PL.70448	PL.70493	A	#4 ACSR	7.50Y	124.9	0.00	0.06	0.65	0	5	1	98	0.00	0.0	0.255	0.055	5	1	1	1
PL.69319	PL.69318	ABC	336 MCM AC	7.50Y	124.9	0.03	0.06	30.23	6	635	243	93	0.08	0.0	0.235	0.100	0	0	0	64
PL.70496	PL.69319	C	#4 ACSR	7.50Y	124.9	0.00	0.06	1.08	1	8	2	97	0.00	0.0	0.240	0.005	0	0	0	2
PD.10556	PL.70496	C	65T	7.50Y	124.9	0.00	0.06	1.08	0	8	2	97	0.00	0.0	0.240	0.005	0	0	0	2
PL.70497	PD.10556	C	#4 ACSR	7.50Y	124.9	0.00	0.06	1.08	1	8	2	97	0.00	0.0	0.286	0.046	8	2	2	2
PL.69338	PL.69319	ABC	336 MCM AC	7.49Y	124.9	0.02	0.09	29.88	6	627	241	93	0.07	0.0	0.335	0.099	8	2	2	62
PL.69339	PL.69338	ABC	336 MCM AC	7.49Y	124.9	0.02	0.10	29.53	6	620	239	93	0.05	0.0	0.404	0.069	9	2	1	60
PL.70457	PL.69339	ABC	336 MCM AC	7.49Y	124.9	0.03	0.13	28.98	6	608	235	93	0.08	0.0	0.519	0.115	0	0	0	58
PL.70500	PL.70457	B	#1/0 ACSR	7.49Y	124.9	0.00	0.13	17.05	7	123	33	97	0.00	0.0	0.523	0.004	0	0	0	26
PD.10558	PL.70500	B	65T	7.49Y	124.9	0.00	0.13	17.05	0	123	33	97	0.00	0.0	0.523	0.004	0	0	0	26
PL.70501	PD.10558	B	#1/0 ACSR	7.49Y	124.8	0.06	0.19	17.05	7	123	33	97	0.04	0.0	0.664	0.140	0	0	0	26

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: Tyner

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.69346	PL.70501	B	#1/0 ACSR	7.49Y	124.8	0.02	0.21	15.26	7	110	29	97	0.01	0.0	0.711	0.047	2	0	1	23
PL.69347	PL.69346	B	#1/0 ACSR	7.49Y	124.8	0.01	0.22	15.05	7	109	29	97	0.01	0.0	0.743	0.032	0	0	0	22
PL.70458	PL.69347	B	#1/0 ACSR	7.49Y	124.8	0.02	0.24	15.05	7	109	29	97	0.02	0.0	0.811	0.068	7	2	2	22
PL.69322	PL.70458	B	#1/0 ACSR	7.48Y	124.7	0.01	0.25	13.19	6	95	25	97	0.01	0.0	0.857	0.046	8	2	1	19
PL.69348	PL.69322	B	#1/0 ACSR	7.48Y	124.7	0.03	0.28	12.05	5	87	23	97	0.02	0.0	0.962	0.105	8	2	1	18
PL.69349	PL.69348	B	#1/0 ACSR	7.48Y	124.7	0.03	0.31	10.99	5	80	21	97	0.02	0.0	1.091	0.129	6	2	1	17
PL.70506	PL.69349	B	6 A (CWC)	7.48Y	124.7	0.00	0.31	10.15	7	73	19	97	0.00	0.0	1.096	0.005	0	0	0	16
PD.10562	PL.70506	B	40T	7.48Y	124.7	0.00	0.31	10.15	0	73	19	97	0.00	0.0	1.096	0.005	0	0	0	16
PL.70507	PD.10562	B	6 A (CWC)	7.48Y	124.7	0.03	0.35	10.15	7	73	19	97	0.02	0.0	1.170	0.074	0	0	0	16
PL.69329	PL.70507	B	6 A (CWC)	7.48Y	124.6	0.07	0.42	10.15	7	73	19	97	0.04	0.0	1.315	0.145	0	0	0	16
PL.69330	PL.69329	B	6 A (CWC)	7.47Y	124.5	0.05	0.46	10.15	7	73	19	97	0.03	0.0	1.421	0.106	0	0	0	16
PL.70461	PL.69330	B	6 A (CWC)	7.47Y	124.5	0.03	0.49	7.21	5	52	14	97	0.01	0.0	1.511	0.090	5	1	2	11
PL.70460	PL.70461	B	6 A (CWC)	7.47Y	124.5	0.04	0.54	5.29	4	38	10	97	0.01	0.0	1.695	0.183	0	0	0	7
PL.70462	PL.70460	B	6 A (CWC)	7.47Y	124.4	0.02	0.56	5.29	4	38	10	97	0.01	0.0	1.812	0.117	10	3	1	7
PL.70487	PL.70462	B	#4 ACSR	7.47Y	124.4	0.01	0.57	3.88	3	28	7	97	0.00	0.0	1.882	0.070	3	1	1	6
PL.70488	PL.70487	B	#4 ACSR	7.47Y	124.4	0.00	0.58	3.41	3	25	7	96	0.00	0.0	1.923	0.041	12	3	2	5
PL.70464	PL.70488	B	#4 ACSR	7.47Y	124.4	0.00	0.58	1.06	1	8	2	97	0.00	0.0	1.940	0.018	8	2	2	2
PL.70463	PL.70488	B	#4 ACSR	7.47Y	124.4	0.00	0.58	0.67	1	5	1	98	0.00	0.0	1.944	0.021	0	0	0	1
PL.70465	PL.70463	B	#1/0 ACSR	7.47Y	124.4	0.00	0.58	0.67	0	5	1	98	0.00	0.0	2.133	0.189	5	1	1	1
PL.70485	PL.70461	B	6 A (CWC)	7.47Y	124.5	0.01	0.50	1.26	1	9	2	98	0.00	0.0	1.694	0.182	1	0	1	2
PL.70486	PL.70485	B	6 A (CWC)	7.47Y	124.5	0.00	0.50	1.09	1	8	2	97	0.00	0.0	1.733	0.040	8	2	1	1
PL.70483	PL.69330	B	#1/0 ACSR	7.47Y	124.5	0.00	0.47	2.03	1	15	4	97	0.00	0.0	1.450	0.029	4	1	1	2
PL.70484	PL.70483	B	#1/0 ACSR	7.47Y	124.5	0.00	0.47	1.54	1	11	3	96	0.00	0.0	1.506	0.056	11	3	1	1
PL.70459	PL.69330	B	6 A (CWC)	7.47Y	124.5	0.00	0.47	0.91	1	7	2	96	0.00	0.0	1.606	0.185	7	2	3	3
PL.70504	PL.70458	B	#4 ACSR	7.49Y	124.8	0.00	0.24	0.86	1	6	2	95	0.00	0.0	0.815	0.004	0	0	0	1
PD.10561	PL.70504	B	40T	7.49Y	124.8	0.00	0.24	0.86	0	6	2	95	0.00	0.0	0.815	0.004	0	0	0	1
PL.70505	PD.10561	B	#4 ACSR	7.49Y	124.8	0.00	0.24	0.86	1	6	2	95	0.00	0.0	0.878	0.063	6	2	1	1
PL.70502	PL.70501	B	#4 ACSR	7.49Y	124.8	0.00	0.19	1.79	1	13	3	97	0.00	0.0	0.668	0.005	0	0	0	3
PD.10559	PL.70502	B	40T	7.49Y	124.8	0.00	0.19	1.79	0	13	3	97	0.00	0.0	0.668	0.005	0	0	0	3
PL.70503	PD.10559	B	#4 ACSR	7.49Y	124.8	0.00	0.19	1.79	1	13	3	97	0.00	0.0	0.713	0.045	2	1	2	3
PL.70466	PL.70503	B	#1/0 ACSR	7.49Y	124.8	0.00	0.19	1.51	1	11	3	96	0.00	0.0	0.780	0.067	0	0	0	1

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Balanced Voltage Drop Report
Source: Tyner

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.70467	PL.70466	B	#1/0 ACSR	7.49Y	124.8	0.00	0.20	1.51	1	11	3	96	0.00	0.0	0.876	0.096	11	3	1	1
PL.69323	PL.70457	ABC	336 MCM AC	7.49Y	124.8	0.03	0.16	23.34	4	484	202	92	0.08	0.0	0.684	0.165	0	0	0	32
PL.69324	PL.69323	ABC	336 MCM AC	7.49Y	124.8	0.03	0.19	19.23	4	394	178	91	0.05	0.0	0.834	0.149	0	0	0	13
PL.70508	PL.69324	C	#4 ACSR	7.49Y	124.8	0.00	0.19	6.84	5	50	13	97	0.00	0.0	0.838	0.004	0	0	0	5
PD.10563	PL.70508	C	65T	7.49Y	124.8	0.00	0.19	6.84	0	50	13	97	0.00	0.0	0.838	0.004	0	0	0	5
PL.70509	PD.10563	C	#4 ACSR	7.49Y	124.8	0.02	0.21	6.84	5	50	13	97	0.00	0.0	0.928	0.090	40	11	4	5
PL.70478	PL.70509	C	#4 ACSR	7.49Y	124.8	0.00	0.21	1.34	1	10	3	96	0.00	0.0	0.965	0.037	10	3	1	1
PL.69326	PL.69324	ABC	336 MCM AC	7.49Y	124.8	0.01	0.20	16.99	3	344	165	90	0.02	0.0	0.923	0.090	0	0	0	8
PL.69327	PL.69326	ABC	336 MCM AC	7.49Y	124.8	0.01	0.21	16.74	3	339	163	90	0.01	0.0	0.982	0.059	0	0	0	7
PL.69350	PL.69327	ABC	#4 ACSR	7.48Y	124.7	0.07	0.28	16.74	13	339	163	90	0.19	0.1	1.089	0.107	1	0	2	7
PL.69351	PL.69350	ABC	#4 ACSR	7.48Y	124.7	0.03	0.31	16.69	13	337	163	90	0.09	0.0	1.139	0.050	0	0	1	5
PL.70480	PL.69351	ABC	#1/0 ACSR	7.48Y	124.7	0.00	0.31	0.34	0	7	3	92	0.00	0.0	1.240	0.101	7	3	1	1
PL.69328	PL.69351	ABC	#4 ACSR	7.48Y	124.6	0.06	0.37	16.35	13	330	160	90	0.16	0.0	1.234	0.096	0	0	0	3
PL.69333	PL.69328	ABC	#4 ACSR	7.47Y	124.6	0.06	0.43	16.35	13	330	160	90	0.16	0.0	1.329	0.095	0	0	0	3
PL.70481	PL.69333	ABC	#4 ACSR	7.47Y	124.5	0.02	0.45	16.31	13	329	159	90	0.06	0.0	1.363	0.034	0	0	0	2
PL.69313	PL.70481	ABC	#4 ACSR	7.47Y	124.5	0.00	0.45	16.31	13	329	159	90	0.00	0.0	1.364	0.001	143	69	1	2
PL.70482	PL.69313	ABC	#4 ACSR	7.47Y	124.5	0.00	0.45	9.22	7	186	90	90	0.00	0.0	1.375	0.010	186	90	1	1
PL.69314	PL.70482	ABC	#4 ACSR	7.47Y	124.5	0.00	0.45	0.00	0	0	0	100	0.00	0.0	1.377	0.002	0	0	0	0
PL.70510	PL.69333	C	#4 ACSR	7.47Y	124.6	0.00	0.43	0.13	0	1	0	100	0.00	0.0	1.334	0.004	0	0	0	1
PD.10564	PL.70510	C	65T	7.47Y	124.6	0.00	0.43	0.13	0	1	0	100	0.00	0.0	1.334	0.004	0	0	0	1
PL.70511	PD.10564	C	#4 ACSR	7.47Y	124.6	0.00	0.43	0.13	0	1	0	100	0.00	0.0	1.414	0.080	0	0	0	1
PL.70514	PL.70511	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	0.13	0	1	0	100	0.00	0.0	1.448	0.034	0	0	0	1
PD.10566	PL.70514	C	15T	7.47Y	124.6	0.00	0.43	0.13	0	1	0	100	0.00	0.0	1.448	0.034	0	0	0	1
PL.70515	PD.10566	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	0.13	0	1	0	100	0.00	0.0	1.453	0.005	1	0	1	1
PL.69317	PL.70515	C	1/0 AL URD	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	1.504	0.051	0	0	0	0
PL.69316	PL.70515	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	1.507	0.055	0	0	0	0
PL.69315	PL.70515	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	1.455	0.003	0	0	0	0
PL.69331	PL.69327	ABC	336 MCM AC	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	1.144	0.162	0	0	0	0
PL.69332	PL.69331	ABC	336 MCM AC	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	1.294	0.150	0	0	0	0
PL.70517	PL.69332	ABC	336 MCM AC	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	1.444	0.150	0	0	0	0
PD.10567-B	PL.70517	ABC	Open	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	1.444	0.150	0	0	0	0

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Balanced Voltage Drop Report
Source: Tyner

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.70512	PL.69326	C	#4 ACSR	7.49Y	124.8	0.00	0.20	0.77	1	6	1	99	0.00	0.0	0.927	0.004	0	0	0	1
PD.10565	PL.70512	C	65T	7.49Y	124.8	0.00	0.20	0.77	0	6	1	99	0.00	0.0	0.927	0.004	0	0	0	1
PL.70513	PD.10565	C	#4 ACSR	7.49Y	124.8	0.00	0.21	0.77	1	6	1	99	0.00	0.0	1.024	0.097	6	1	1	1
PL.70468	PL.69323	A	#4 ACSR	7.49Y	124.8	0.02	0.19	12.46	10	90	24	97	0.02	0.0	0.725	0.040	0	0	0	19
PD.10560	PL.70468	A	65T	7.49Y	124.8	0.00	0.19	12.46	0	90	24	97	0.00	0.0	0.725	0.040	0	0	0	19
PL.70469	PD.10560	A	#4 ACSR	7.49Y	124.8	0.01	0.20	4.70	4	34	9	97	0.00	0.0	0.796	0.071	6	2	2	7
PL.70470	PL.70469	A	#4 ACSR	7.49Y	124.8	0.02	0.22	3.81	3	28	7	97	0.00	0.0	0.935	0.139	20	5	4	5
PL.70471	PL.70470	A	#4 ACSR	7.49Y	124.8	0.00	0.22	1.05	1	8	2	97	0.00	0.0	1.017	0.082	8	2	1	1
PL.69325	PD.10560	A	#4 ACSR	7.49Y	124.8	0.02	0.21	7.76	6	56	15	97	0.01	0.0	0.797	0.072	3	1	1	12
PL.70472	PL.69325	A	#4 ACSR	7.49Y	124.8	0.02	0.23	7.29	6	53	14	97	0.01	0.0	0.855	0.058	0	0	0	11
PL.70474	PL.70472	A	#4 ACSR	7.49Y	124.8	0.02	0.25	7.29	6	53	14	97	0.01	0.0	0.917	0.062	7	2	1	11
PL.70475	PL.70474	A	#4 ACSR	7.48Y	124.7	0.01	0.26	5.20	4	38	10	97	0.00	0.0	0.983	0.066	23	6	4	7
PL.69342	PL.70475	A	#2 ACSR	7.48Y	124.7	0.00	0.26	2.03	1	15	4	97	0.00	0.0	1.012	0.029	7	2	1	3
PL.69343	PL.69342	A	#2 ACSR	7.48Y	124.7	0.00	0.26	1.04	1	7	2	96	0.00	0.0	1.063	0.051	0	0	0	2
PL.69340	PL.69343	A	#1/0 ACSR	7.48Y	124.7	0.00	0.26	1.04	0	7	2	96	0.00	0.0	1.100	0.037	0	0	0	2
PL.69341	PL.69340	A	#1/0 ACSR	7.48Y	124.7	0.00	0.26	1.04	0	7	2	96	0.00	0.0	1.159	0.059	7	2	2	2
PL.70476	PL.70474	A	#4 ACSR	7.48Y	124.7	0.00	0.25	0.77	1	6	1	99	0.00	0.0	1.012	0.095	6	1	1	1
PL.69344	PL.70474	A	#4 ACSR	7.49Y	124.8	0.00	0.25	0.42	0	3	1	95	0.00	0.0	0.959	0.042	0	0	1	2
PL.69345	PL.69344	A	#4 ACSR	7.49Y	124.8	0.00	0.25	0.42	0	3	1	95	0.00	0.0	0.967	0.008	0	0	0	1
PL.70477	PL.69345	A	#4 ACSR	7.48Y	124.7	0.00	0.25	0.42	0	3	1	95	0.00	0.0	0.994	0.027	3	1	1	1
PL.70473	PL.69325	A	#4 ACSR	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	0.825	0.028	0	0	0	0
PL.70498	PL.69339	C	#4 ACSR	7.49Y	124.9	0.00	0.10	0.40	0	3	1	95	0.00	0.0	0.408	0.004	0	0	0	1
PD.10557	PL.70498	C	65T	7.49Y	124.9	0.00	0.10	0.40	0	3	1	95	0.00	0.0	0.408	0.004	0	0	0	1
PL.70499	PD.10557	C	#4 ACSR	7.49Y	124.9	0.00	0.10	0.40	0	3	1	95	0.00	0.0	0.483	0.075	3	1	1	1
PL.70494	PL.70444	C	#4 ACSR	7.50Y	125.0	0.00	0.03	4.20	3	30	8	97	0.00	0.0	0.101	0.004	0	0	0	6
PD.10555	PL.70494	C	65T	7.50Y	125.0	0.00	0.03	4.20	0	30	8	97	0.00	0.0	0.101	0.004	0	0	0	6
PL.70495	PD.10555	C	#4 ACSR	7.50Y	125.0	0.01	0.04	4.20	3	30	8	97	0.00	0.0	0.163	0.062	0	0	0	6
PL.70445	PL.70495	C	#4 ACSR	7.50Y	125.0	0.00	0.04	2.32	2	17	4	97	0.00	0.0	0.191	0.027	0	0	0	2
PL.70447	PL.70445	C	#4 ACSR	7.50Y	125.0	0.00	0.04	2.32	2	17	4	97	0.00	0.0	0.230	0.040	17	4	2	2
PL.70446	PL.70495	C	#4 ACSR	7.50Y	125.0	0.00	0.04	1.88	1	14	4	96	0.00	0.0	0.214	0.051	14	4	4	4

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total	
KW	9145	0	0	0	0	0	160	0.00	9305	Lowest Voltage = 119.56 on Element PL.67770
KVAR	2736	0	0	0	0	0	333		3069	Max Accm VoltD = 5.44 on Element PL.67770
										Max Elem VoltD = 0.27 on Element PL.68372