

Unbalanced Voltage Drop Report
Source: KEITH II

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
KEITH II		A	KEITH II	15.12Y	126.0	0.00	0.00	37.92	0	516	249	90	0.00	0.0	0.000	0.000	0	0	0	0
		B		15.12Y	126.0	0.00	0.00	37.92	0	516	249	90					0	0	0	0
		C		15.12Y	126.0	0.00	0.00	37.92	0	516	249	90					0	0	0	0

----- Feeder No. 5805 (5805) Beginning with Device R1397 -----

R1397	13536	A	5805	15.12Y	126.0	0.00	0.00	37.92	0	516	249	90	0.00	0.0	0.008	0.000	0	0	0	0
		B		15.12Y	126.0	0.00	0.00	37.92	0	516	249	90					0	0	0	0
		C		15.12Y	126.0	0.00	0.00	37.92	0	516	249	90					0	0	0	0

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total
KW	1505	27	0	0	0	0	17		0.00	1549
KVAR	694	12	0	-2	0	0	44			748

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 123.48 volts on T11026201476	2.52 volts on T11026201476	0.25 volts on T11026201476
B-Phase -> 123.48 volts on T11026201476	2.52 volts on T11026201476	0.25 volts on T11026201476
C-Phase -> 123.48 volts on T11026201476	2.52 volts on T11026201476	0.25 volts on T11026201476

Unbalanced Voltage Drop Report
Source: SMOOT II

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
SMOOT II		A	SMOOT II	7.56Y	126.0	0.00	0.00	459.44	46	3266	1181	94	0.00	0.0	0.000	0.000	0	0	0	781
		B		7.56Y	126.0	0.00	0.00	488.42	49	3464	1279	94					0	0	0	873
		C		7.56Y	126.0	0.00	0.00	406.30	41	2885	1055	94					0	0	0	737
C 25665	SMOOT II	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	459.44	92	3266	1181	94	0.32	0.0	0.002	0.002	0	0	0	781 C
		B		7.56Y	126.0	0.01	0.01	488.42	98	3464	1279	94					0	0	0	873 C
		C		7.56Y	126.0	0.01	0.01	406.30	81	2885	1055	94					0	0	0	737 C
C 25670	25665	A	336 ACSR 3	7.56Y	126.0	0.01	0.02	459.44	92	3266	1181	94	0.32	0.0	0.004	0.002	0	0	0	781 C
		B		7.56Y	126.0	0.01	0.02	488.42	98	3464	1278	94					0	0	0	873 C
		C		7.56Y	126.0	0.01	0.01	406.30	81	2885	1055	94					0	0	0	737 C

----- Feeder No. 5305 (5305) Beginning with Device R1174 -----

R1174	68347	A	5305	7.56Y	126.0	0.00	0.03	322.57	0	2294	827	94	0.00	0.0	0.011	0.000	0	0	0	498
		B		7.56Y	126.0	0.00	0.03	314.77	0	2233	822	94					0	0	0	538
		C		7.56Y	126.0	0.00	0.03	306.64	0	2176	799	94					0	0	0	524

----- Feeder No. 5304 (5304) Beginning with Device R1173 -----

R1173	68345	A	5304	7.56Y	126.0	0.00	0.02	136.87	0	972	353	94	0.00	0.0	0.011	0.000	0	0	0	283
		B		7.56Y	126.0	0.00	0.02	173.65	0	1231	456	94					0	0	0	336
		C		7.56Y	126.0	0.00	0.01	99.66	0	709	256	94					0	0	0	213

----- 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	9342	146	0	0	0	0	127		0.00	9615
KVAR	3396	53	-92	-190	0	0	348			3515

	Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase ->	121.43 volts on T61450170908	4.57 volts on T61450170908	2.50 volts on T61450170908
B-Phase ->	120.89 volts on T62451128390	5.11 volts on T62451128390	2.85 volts on T61450162596
C-Phase ->	119.29 volts on T62451005172	6.71 volts on T62451005172	4.43 volts on T61450161650

Summary

Unbalanced Voltage Drop Report
Source: DOWNING

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
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Units Displayed In Volts

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	-Base Voltage:120.0-				KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-Element-		Cons On	Cons Thru
							Accum Drop	Thru Amps	% Cap	Thru KW							KW	KVAR		
DOWNING	DOWNING	A	DOWNING	7.56Y	126.0	0.00	0.00	451.26	45	3080	1467	90	0.00	0.0	0.000	0.000	0	0	0	429
		B		7.56Y	126.0	0.00	0.00	475.09	48	3239	1553	90					0	0	0	455
		C		7.56Y	126.0	0.00	0.00	459.53	46	3128	1511	90					0	0	0	359
C 26455	DOWNING	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	451.26	90	3080	1467	90	0.50	0.0	0.003	0.003	0	0	0	429 C
		B		7.56Y	126.0	0.01	0.01	475.09	95	3239	1553	90					0	0	0	455 C
		C		7.56Y	126.0	0.01	0.01	459.53	92	3128	1511	90					0	0	0	359 C
C 26460	26455	A	336 ACSR 3	7.56Y	126.0	0.01	0.02	451.26	90	3080	1467	90	0.50	0.0	0.006	0.003	0	0	0	429 C
		B		7.56Y	126.0	0.01	0.02	475.09	95	3239	1552	90					0	0	0	455 C
		C		7.56Y	126.0	0.01	0.02	459.53	92	3128	1511	90					0	0	0	359 C

----- Feeder No. 2001 (2001) Beginning with Device R1373 -----

R1373	68351	A	2001	7.56Y	126.0	0.00	0.03	286.94	0	2013	806	93	0.00	0.0	0.010	0.000	0	0	0	418
		B		7.56Y	126.0	0.00	0.04	309.84	0	2167	889	93					0	0	0	441
		C		7.56Y	126.0	0.00	0.03	295.05	0	2062	850	92					0	0	0	347

----- Feeder No. 2003 (2003) Beginning with Device R1389 -----

R1389	68355	A	2003	7.56Y	126.0	0.00	0.03	165.91	0	1066	661	85	0.00	0.0	0.010	0.000	0	0	0	12
		B		7.56Y	126.0	0.00	0.03	166.71	0	1072	663	85					0	0	0	14
		C		7.56Y	126.0	0.00	0.03	165.91	0	1066	661	85					0	0	0	13

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total
KW	9188	54	0	0	0	0	204		0.00	9447
KVAR	4141	19	-37	-122	0	0	530			4532

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 119.45 volts on T62494001339	6.55 volts on T62494001339	4.01 volts on T62494001339
B-Phase -> 117.96 volts on T62500004975	8.04 volts on T62500004975	4.01 volts on T62494001339
C-Phase -> 118.01 volts on T62505196237	7.99 volts on T62505196237	4.01 volts on T62494001339

Summary

Unbalanced Voltage Drop Report
Source: BIG BONE

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
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Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
BIG BONE		A	BIG BONE	7.56Y	126.0	0.00	0.00	226.67	23	1605	601	94	0.00	0.0	0.000	0.000	0	0	0	495
		B		7.56Y	126.0	0.00	0.00	155.77	16	1111	392	94					0	0	0	348
		C		7.56Y	126.0	0.00	0.00	164.31	16	1171	415	94					0	0	0	291
----- Feeder No. 1202 (1202) Beginning with Device R1427 -----																				
R1427	68289	A	1202	7.56Y	126.0	0.00	0.01	89.81	0	635	241	93	0.00	0.0	0.011	0.000	0	0	0	155
		B		7.56Y	126.0	0.00	0.00	46.39	0	332	112	95					0	0	0	92
		C		7.56Y	126.0	0.00	0.01	88.35	0	627	229	94					0	0	0	133
----- Feeder No. 1201 (1201) Beginning with Device R1426 -----																				
R1426	68287	A	1201	7.56Y	126.0	0.00	0.02	96.64	0	684	255	94	0.00	0.0	0.011	0.000	0	0	0	264
		B		7.56Y	126.0	0.00	0.01	88.33	0	629	225	94					0	0	0	207
		C		7.56Y	126.0	0.00	0.01	47.67	0	342	113	95					0	0	0	100
----- Feeder No. 1204 (1204) Beginning with Device R1425 -----																				
R1425	68285	A	1204	7.56Y	126.0	0.00	0.01	40.22	0	285	105	94	0.00	0.0	0.011	0.000	0	0	0	76
		B		7.56Y	126.0	0.00	0.00	21.06	0	150	54	94					0	0	0	49
		C		7.56Y	126.0	0.00	0.01	28.31	0	201	72	94					0	0	0	58

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	3763	58	0	0	0	0	65		0.00	3886
KVAR	1366	21	-76	-51	0	0	149			1408

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 118.70 volts on T61403049986	7.30 volts on T61403049986	3.38 volts on T61389000488
B-Phase -> 113.06 volts on T61433187503	12.94 volts on T61433187503	9.11 volts on T61433187503
C-Phase -> 119.23 volts on T61407213462	6.77 volts on T61407213462	2.14 volts on T61407213462

Unbalanced Voltage Drop Report
Source: GRIFFIN

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Case: Improved System with Grown Summer Load

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
----- Feeder No. 904 (0904) Beginning with Device R1433 -----																				
R1433	68253	A	0904	7.56Y	126.0	0.00	0.02	67.65	0	472	196	92	0.00	0.0	0.012	0.000	0	0	0	156
		B		7.56Y	126.0	0.00	0.03	84.12	0	586	246	92					0	0	0	185
		C		7.56Y	126.0	0.00	0.02	71.05	0	497	204	93					0	0	0	178
----- Feeder No. 903 (0903) Beginning with Device R1434 -----																				
R1434	68251	A	0903	7.56Y	126.0	0.00	0.02	101.14	0	705	295	92	0.00	0.0	0.011	0.000	0	0	0	74
		B		7.56Y	126.0	0.00	0.03	120.50	0	844	343	93					0	0	0	109
		C		7.56Y	126.0	0.00	0.03	105.34	0	728	322	91					0	0	0	70
----- Feeder No. 902 (0902) Beginning with Device R1435 -----																				
R1435	68249	A	0902	7.56Y	126.0	0.00	0.02	62.60	0	435	186	92	0.00	0.0	0.013	0.000	0	0	0	117
		B		7.56Y	126.0	0.00	0.03	67.20	0	466	202	92					0	0	0	118
		C		7.56Y	126.0	0.00	0.02	59.01	0	411	173	92					0	0	0	107
----- Feeder No. 901 (0901) Beginning with Device R1436 -----																				
R1436	68247	A	0901	7.56Y	126.0	0.00	0.03	123.71	0	862	361	92	0.00	0.0	0.013	0.000	0	0	0	218
		B		7.56Y	126.0	0.00	0.03	128.08	0	892	376	92					0	0	0	210
		C		7.56Y	126.0	0.00	0.04	155.73	0	1079	471	92					0	0	0	359

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	7687	84	0	0	0	0	209		0.00	7979
KVAR	3131	34	-151	-24	0	0	387			3377

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 115.89 volts on T31223037016	10.11 volts on T31223037016	7.48 volts on T31223037016
B-Phase -> 115.56 volts on T31323134724	10.44 volts on T31323134724	5.05 volts on T31284206120
C-Phase -> 104.91 volts on T31305098079	21.09 volts on T31305098079	15.97 volts on T31305098079

Unbalanced Voltage Drop Report
Source: BOONE

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Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
BOONE		A	BOONE	7.56Y	126.0	0.00	0.00	605.53	61	4343	1446	95	0.00	0.0	0.000	0.000	0	0	0	1103
		B		7.56Y	126.0	0.00	0.00	661.24	66	4718	1651	94					0	0	0	1181
		C		7.56Y	126.0	0.00	0.00	579.37	58	4169	1345	95					0	0	0	973
C 23132	BOONE	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	605.53	121	4343	1446	95	0.90	0.0	0.003	0.003	0	0	0	1103 C
C		B		7.56Y	126.0	0.02	0.02	661.24	132	4718	1651	94					0	0	0	1181 C
C		C		7.56Y	126.0	0.01	0.01	579.37	116	4169	1345	95					0	0	0	973 C
C 23133	23132	A	336 ACSR 3	7.56Y	126.0	0.01	0.03	605.53	121	4343	1446	95	0.90	0.0	0.006	0.003	0	0	0	1103 C
C		B		7.56Y	126.0	0.02	0.03	661.24	132	4718	1650	94					0	0	0	1181 C
C		C		7.56Y	126.0	0.01	0.02	579.37	116	4168	1344	95					0	0	0	973 C
----- Feeder No. 104 (0104) Beginning with Device R1462 -----																				
R1462	68317	A	0104	7.56Y	126.0	0.00	0.03	0.00	0	0	0	100	0.00	0.0	0.010	0.000	0	0	0	0
		B		7.56Y	126.0	0.00	0.03	0.00	0	0	0	100					0	0	0	0
		C		7.56Y	126.0	0.00	0.02	0.00	0	0	0	100					0	0	0	0
----- Feeder No. 105 (0105) Beginning with Device R1463 -----																				
R1463	68315	A	0105	7.56Y	126.0	0.00	0.04	247.54	0	1785	561	95	0.00	0.0	0.010	0.000	0	0	0	419
		B		7.56Y	126.0	0.00	0.04	330.17	0	2358	815	95					0	0	0	502
		C		7.56Y	126.0	0.00	0.03	255.19	0	1834	598	95					0	0	0	419
----- Feeder No. 101 (0101) Beginning with Device R1459 -----																				
R1459	68323	A	0101	7.56Y	126.0	0.00	0.03	49.79	0	357	119	95	0.00	0.0	0.012	0.000	0	0	0	89
		B		7.56Y	126.0	0.00	0.03	39.04	0	281	91	95					0	0	0	82
		C		7.56Y	126.0	0.00	0.03	67.79	0	487	160	95					0	0	0	101
----- Feeder No. 102 (0102) Beginning with Device R1460 -----																				
R1460	68321	A	0102	7.56Y	126.0	0.00	0.04	145.33	0	1033	372	94	0.00	0.0	0.013	0.000	0	0	0	299
		B		7.56Y	126.0	0.00	0.04	146.59	0	1034	397	93					0	0	0	338
		C		7.56Y	126.0	0.00	0.03	121.00	0	875	268	96					0	0	0	233
----- Feeder No. 103 (0103) Beginning with Device R1461 -----																				
R1461	68319	A	0103	7.56Y	126.0	0.00	0.04	162.96	0	1167	393	95	0.00	0.0	0.012	0.000	0	0	0	296
		B		7.56Y	126.0	0.00	0.04	145.55	0	1044	345	95					0	0	0	259
		C		7.56Y	126.0	0.00	0.03	135.41	0	973	317	95					0	0	0	220

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	12751	137	0	0	0	0	343		0.00	13230
KVAR	4671	48	-774	-198	0	0	695			4442

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 117.03 volts on T61420159506	8.97 volts on T61420159506	2.45 volts on T61419072038
B-Phase -> 116.87 volts on T62462190359	9.13 volts on T62462190359	4.75 volts on T62463181629
C-Phase -> 112.08 volts on T61448219661	13.92 volts on T61448219661	10.49 volts on T61448219661

Summary

Unbalanced Voltage Drop Report
Source: RICHWOOD

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Units Displayed In Volts																					
-Base Voltage:120.0-																					
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			Cons On	Cons Thru
RICHWOOD		A	RICHWOOD	7.56Y	126.0	0.00	0.00	376.40	0	2670	983	94	0.00	0.0	0.000	0.000	0	0	0	493	
		B		7.56Y	126.0	0.00	0.00	348.43	0	2478	893	94					0	0	0	453	
		C		7.56Y	126.0	0.00	0.00	411.18	0	2917	1074	94					0	0	0	557	
C 31964	RICHWOOD	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	376.40	75	2670	983	94	0.50	0.0	0.004	0.004	0	0	0	493	C
		B		7.56Y	126.0	0.01	0.01	348.43	70	2478	893	94					0	0	0	453	
		C		7.56Y	126.0	0.02	0.02	411.18	82	2917	1074	94					0	0	0	557	C
C 31971	31964	A	336 ACSR 3	7.56Y	126.0	0.01	0.03	376.40	75	2670	983	94	0.59	0.0	0.009	0.005	0	0	0	493	C
		B		7.56Y	126.0	0.01	0.03	348.43	70	2478	893	94					0	0	0	453	
		C		7.56Y	126.0	0.02	0.03	411.18	82	2917	1073	94					0	0	0	557	C

----- Feeder No. 2604 (2604) Beginning with Device R1383 -----

R1383	68377	A	2604	7.56Y	126.0	0.00	0.03	28.65	0	203	75	94	0.00	0.0	0.017	0.000	0	0	0	63
		B		7.56Y	126.0	0.00	0.03	35.97	0	256	93	94					0	0	0	60
		C		7.56Y	126.0	0.00	0.04	36.94	0	263	95	94					0	0	0	82

----- Feeder No. 2605 (2605) Beginning with Device R1181 -----

R1181	68375	A	2605	7.56Y	126.0	0.00	0.04	171.26	0	1212	453	94	0.00	0.0	0.019	0.000	0	0	0	195
		B		7.56Y	126.0	0.00	0.04	153.62	0	1090	400	94					0	0	0	165
		C		7.56Y	125.9	0.00	0.05	192.71	0	1364	511	94					0	0	0	226

----- Feeder No. 2601 (2601) Beginning with Device R1451 -----

R1451	68379	A	2601	7.56Y	126.0	0.00	0.04	176.49	0	1254	454	94	0.00	0.0	0.022	0.000	0	0	0	235
		B		7.56Y	126.0	0.00	0.04	158.85	0	1132	400	94					0	0	0	228
		C		7.56Y	125.9	0.00	0.05	181.54	0	1290	466	94					0	0	0	249

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	7798	58	0	0	0	0	209		0.00	8066
KVAR	2931	22	-77	-255	0	0	330			2950

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 119.06 volts on T61408013997	6.94 volts on T61408013997	2.72 volts on T61408033701
B-Phase -> 118.90 volts on T61408024501	7.10 volts on T61408024501	3.75 volts on T61408092978
C-Phase -> 117.90 volts on T61408017812	8.10 volts on T61408017812	2.72 volts on T61408033701

Unbalanced Voltage Drop Report
Source: STERLING

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
STERLING		A	STERLING	7.56Y	126.0	0.00	0.00	413.82	0	2658	1650	85	0.00	0.0	0.000	0.000	0	0	0	283
		B		7.56Y	126.0	0.00	0.00	444.79	0	2850	1784	85					0	0	0	369
		C		7.56Y	126.0	0.00	0.00	381.54	0	2394	1608	83					0	0	0	187
C 17415	STERLING	A	336 ACSR 3	7.56Y	126.0	0.02	0.02	413.82	83	2658	1650	85	0.54	0.0	0.004	0.004	0	0	0	283 C
C		B		7.56Y	126.0	0.02	0.02	444.79	89	2850	1784	85					0	0	0	369 C
C		C		7.56Y	126.0	0.01	0.01	381.54	76	2394	1608	83					0	0	0	187 C
C 17498	17415	A	336 ACSR 3	7.56Y	126.0	0.02	0.03	413.82	83	2658	1650	85	0.54	0.0	0.008	0.004	0	0	0	283 C
C		B		7.56Y	126.0	0.02	0.03	444.79	89	2850	1784	85					0	0	0	369 C
C		C		7.56Y	126.0	0.01	0.03	381.54	76	2394	1608	83					0	0	0	187 C

----- Feeder No. 2504 (2504) Beginning with Device R1179 -----

R1179	68283	A	2504	7.56Y	126.0	0.00	0.04	153.05	0	750	881	65	0.00	0.0	0.013	0.000	0	0	0	0
		B		7.56Y	126.0	0.00	0.04	153.05	0	750	881	65					0	0	0	0
		C		7.56Y	126.0	0.00	0.04	153.04	0	750	881	65					0	0	0	0

----- Feeder No. 2503 (2503) Beginning with Device R1390 -----

R1390	68281	A	2503	7.56Y	126.0	0.00	0.04	94.50	0	630	337	88	0.00	0.0	0.013	0.000	0	0	0	123
		B		7.56Y	126.0	0.00	0.04	86.46	0	570	319	87					0	0	0	156
		C		7.56Y	126.0	0.00	0.03	46.66	0	266	232	75					0	0	0	24

----- Feeder No. 2502 (2502) Beginning with Device R1378 -----

R1378	68279	A	2502	7.56Y	126.0	0.00	0.04	74.16	0	521	207	93	0.00	0.0	0.014	0.000	0	0	0	0
		B		7.56Y	126.0	0.00	0.04	74.16	0	521	207	93					0	0	0	0
		C		7.56Y	126.0	0.00	0.03	74.16	0	521	207	93					0	0	0	0

----- Feeder No. 2501 (2501) Beginning with Device R1387 -----

R1387	68277	A	2501	7.56Y	126.0	0.00	0.04	104.49	0	757	224	96	0.00	0.0	0.013	0.000	0	0	0	160
		B		7.56Y	126.0	0.00	0.04	142.47	0	1009	376	94					0	0	0	213
		C		7.56Y	126.0	0.00	0.03	119.71	0	858	287	95					0	0	0	162

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	7732	76	0	0	0	0	94	0.00		7902
KVAR	5457	77	-724	-8	0	0	242			5043

	Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase	-> 107.51 volts on T41328047259	18.49 volts on T41328047259	13.77 volts on T41328047259
B-Phase	-> 115.49 volts on T41328046196	10.51 volts on T41328046196	6.91 volts on T61390186238
C-Phase	-> 116.67 volts on T41328046196	9.33 volts on T41328046196	6.88 volts on T61390186238

Unbalanced Voltage Drop Report
Source: TURKEYFOOT

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
TURKEYFOOT		A	TURKEYFOOT	7.56Y	126.0	0.00	0.00	666.12	67	4776	1598	95	0.00	0.0	0.000	0.000	0	0	0	855
		B		7.56Y	126.0	0.00	0.00	640.99	64	4610	1495	95					0	0	0	864
		C		7.56Y	126.0	0.00	0.00	569.98	57	4095	1340	95					0	0	0	752
C 38362	TURKEYFOOT	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	412.90	83	2932	1071	94	0.37	0.0	0.003	0.003	0	0	0	599 C
C		B		7.56Y	126.0	0.01	0.01	391.22	78	2776	1021	94					0	0	0	613 C
C		C		7.56Y	126.0	0.01	0.01	381.66	76	2714	981	94					0	0	0	617 C
C 38363	38362	A	336 ACSR 3	7.56Y	126.0	0.01	0.02	412.90	83	2932	1070	94	0.37	0.0	0.006	0.003	0	0	0	599 C
C		B		7.56Y	126.0	0.01	0.02	391.22	78	2776	1020	94					0	0	0	613 C
C		C		7.56Y	126.0	0.01	0.02	381.66	76	2714	980	94					0	0	0	617 C
----- Feeder No. 1002 (1002) Beginning with Device R1470 -----																				
R1470	68215	A	1002	7.56Y	126.0	0.00	0.02	135.93	0	915	467	89	0.00	0.0	0.009	0.000	0	0	0	120
		B		7.56Y	126.0	0.00	0.02	123.84	0	819	453	88					0	0	0	40
		C		7.56Y	126.0	0.00	0.02	136.71	0	921	469	89					0	0	0	99
----- Feeder No. 1003 (1003) Beginning with Device R1469 -----																				
R1469	68213	A	1003	7.56Y	126.0	0.00	0.02	32.72	0	232	87	94	0.00	0.0	0.009	0.000	0	0	0	28
		B		7.56Y	126.0	0.00	0.02	45.88	0	336	87	97					0	0	0	95
		C		7.56Y	126.0	0.00	0.02	23.38	0	172	42	97					0	0	0	64
----- Feeder No. 1004 (1004) Beginning with Device R1468 -----																				
R1468	68211	A	1004	7.56Y	126.0	0.00	0.02	138.32	0	1003	293	96	0.00	0.0	0.009	0.000	0	0	0	254
		B		7.56Y	126.0	0.00	0.02	106.42	0	772	226	96					0	0	0	233
		C		7.56Y	126.0	0.00	0.02	136.18	0	988	289	96					0	0	0	250
----- Feeder No. 1005 (1005) Beginning with Device R1466 -----																				
R1466	68209	A	1005	7.56Y	126.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.009	0.000	0	0	0	0
		B		7.56Y	126.0	0.00	0.02	0.00	0	0	0	100					0	0	0	0
		C		7.56Y	126.0	0.00	0.02	0.00	0	0	0	100					0	0	0	0
----- Feeder No. 1006 (1006) Beginning with Device R1467 -----																				
R1467	68207	A	1006	7.56Y	126.0	0.00	0.02	21.07	0	154	42	96	0.00	0.0	0.009	0.000	0	0	0	43
		B		7.56Y	126.0	0.00	0.02	24.81	0	179	56	95					0	0	0	54
		C		7.56Y	126.0	0.00	0.02	13.03	0	95	28	96					0	0	0	47
----- Feeder No. 1009 (1009) Beginning with Device R1172 -----																				
R1172	68205	A	1009	7.56Y	126.0	0.00	0.02	86.43	0	628	180	96	0.00	0.0	0.009	0.000	0	0	0	153

B	7.56Y	126.0	0.00	0.02	92.40	0	670	198	96	0	0	0	190
C	7.56Y	126.0	0.00	0.02	74.02	0	538	152	96	0	0	0	156

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	13098	243	0	0	0	0	140		0.00	13481
KVAR	4765	89	-693	-149	0	0	420			4432

	Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase	-> 119.46 volts on T72438044167	6.54 volts on T72438044167	6.29 volts on T72452235255
B-Phase	-> 119.43 volts on T72452236335	6.57 volts on T72452236335	6.48 volts on T72452236335
C-Phase	-> 120.11 volts on T72452238611	5.89 volts on T72452238611	5.83 volts on T72452238611

Summary

Unbalanced Voltage Drop Report
Source: BULLITTSVILLE

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

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Units Displayed In Volts																					
-Base Voltage:120.0-																					
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			Cons On	Cons Thru
BULLITTSVILLE		A	BULLITTSVI	7.56Y	126.0	0.00	0.00	506.43	51	3511	1528	92	0.00	0.0	0.000	0.000	0	0	0	276	
		B		7.56Y	126.0	0.00	0.00	441.29	44	3035	1384	91					0	0	0	166	
		C		7.56Y	126.0	0.00	0.00	484.62	48	3350	1484	91					0	0	0	248	
C 20721	BULLITTSVILLE	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	506.43	101	3511	1528	92	0.36	0.0	0.002	0.002	0	0	0	276 C	
C		B		7.56Y	126.0	0.01	0.01	441.29	88	3035	1384	91					0	0	0	166 C	
C		C		7.56Y	126.0	0.01	0.01	484.62	97	3350	1484	91					0	0	0	248 C	
C 20718	20721	A	336 ACSR 3	7.56Y	126.0	0.01	0.02	506.43	101	3511	1527	92	0.36	0.0	0.004	0.002	0	0	0	276 C	
C		B		7.56Y	126.0	0.01	0.01	441.29	88	3035	1384	91					0	0	0	166 C	
C		C		7.56Y	126.0	0.01	0.02	484.62	97	3350	1483	91					0	0	0	248 C	

----- Feeder No. 802 (0802) Beginning with Device R1417 -----

R1417	68297	A	0802	7.56Y	126.0	0.00	0.02	55.01	0	405	96	97	0.00	0.0	0.011	0.000	0	0	0	112
		B		7.56Y	126.0	0.00	0.01	27.67	0	206	37	98					0	0	0	73
		C		7.56Y	126.0	0.00	0.02	42.18	0	312	67	98					0	0	0	111

----- Feeder No. 803 (0803) Beginning with Device R1414 -----

R1414	68295	A	0803	7.56Y	126.0	0.00	0.02	15.45	0	107	46	92	0.00	0.0	0.011	0.000	0	0	0	26
		B		7.56Y	126.0	0.00	0.01	10.86	0	75	33	92					0	0	0	21
		C		7.56Y	126.0	0.00	0.02	41.62	0	295	108	94					0	0	0	64

----- Feeder No. 804 (0804) Beginning with Device R1416 -----

R1416	68293	A	0804	7.56Y	126.0	0.00	0.03	199.61	0	1346	682	89	0.00	0.0	0.011	0.000	0	0	0	11
		B		7.56Y	126.0	0.00	0.03	204.26	0	1379	693	89					0	0	0	21
		C		7.56Y	126.0	0.00	0.03	197.73	0	1332	677	89					0	0	0	7

----- Feeder No. 801 (0801) Beginning with Device R1415 -----

R1415	68291	A	0801	7.56Y	126.0	0.00	0.03	237.58	0	1652	703	92	0.00	0.0	0.011	0.000	0	0	0	127
		B		7.56Y	126.0	0.00	0.03	199.52	0	1374	621	91					0	0	0	51
		C		7.56Y	126.0	0.00	0.03	204.35	0	1410	630	91					0	0	0	66

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total
KW	9624	43	0	0	0	0	228		0.00	9896
KVAR	4980	2	-1060	-93	0	0	566			4396

Lowest Voltage Highest Accumulated Voltage Drop Highest Element Voltage Drop
 A-Phase -> 118.12 volts on T62485188791 7.88 volts on T62485188791 2.45 volts on T62492226094
 B-Phase -> 118.32 volts on T62492231765 7.68 volts on T62492231765 2.08 volts on T62493193501
 C-Phase -> 118.28 volts on T62485188791 7.72 volts on T62485188791 2.07 volts on T62493193501

Unbalanced Voltage Drop Report
 Source: WILLIAMSTOWN

Summary

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
 Title: OEC 2012-2013 CWP
 Case: Improved System with Grown Summer Load

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	--Element--		Cons On	Cons Thru
WILLIAMSTOWN		A	WILLIAMSTO	7.56Y	126.0	0.00	0.00	566.42	57	4104	1224	96	0.00	0.0	0.000	0.000	0	0	0	1104
		B		7.56Y	126.0	0.00	0.00	566.96	57	4079	1316	95					0	0	0	1171
		C		7.56Y	126.0	0.00	0.00	528.79	53	3858	1047	97					0	0	0	1221
C 38035	WILLIAMSTOWN	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	566.42	113	4104	1224	96	0.48	0.0	0.002	0.002	0	0	0	1104 C
C		B		7.56Y	126.0	0.01	0.01	566.96	113	4079	1316	95					0	0	0	1171 C
C		C		7.56Y	126.0	0.01	0.01	528.79	106	3858	1047	97					0	0	0	1221 C
C 38030	38035	A	336 ACSR 3	7.56Y	126.0	0.01	0.02	566.42	113	4103	1223	96	0.48	0.0	0.004	0.002	0	0	0	1104 C
C		B		7.56Y	126.0	0.01	0.02	566.96	113	4079	1315	95					0	0	0	1171 C
C		C		7.56Y	126.0	0.01	0.01	528.79	106	3858	1047	97					0	0	0	1221 C

----- Feeder No. 501 (0501) Beginning with Device R1450 -----

R1450	68203	A	0501	7.56Y	126.0	0.00	0.02	100.35	0	726	220	96	0.00	0.0	0.011	0.000	0	0	0	160
		B		7.56Y	126.0	0.00	0.02	91.09	0	658	202	96					0	0	0	198
		C		7.56Y	126.0	0.00	0.02	108.09	0	784	230	96					0	0	0	245

----- Feeder No. 502 (0502) Beginning with Device R1449 -----

R1449	68201	A	0502	7.56Y	126.0	0.00	0.02	65.48	0	478	129	97	0.00	0.0	0.011	0.000	0	0	0	158
		B		7.56Y	126.0	0.00	0.02	93.26	0	679	189	96					0	0	0	263
		C		7.56Y	126.0	0.00	0.02	97.62	0	706	215	96					0	0	0	271

----- Feeder No. 503 (0503) Beginning with Device R1448 -----

R1448	68199	A	0503	7.56Y	126.0	0.00	0.02	35.74	0	258	79	96	0.00	0.0	0.011	0.000	0	0	0	97
		B		7.56Y	126.0	0.00	0.02	20.26	0	148	40	97					0	0	0	48
		C		7.56Y	126.0	0.00	0.02	52.41	0	380	111	96					0	0	0	121

----- Feeder No. 504 (0504) Beginning with Device R1447 -----

R1447	68197	A	0504	7.56Y	126.0	0.00	0.03	124.28	0	900	270	96	0.00	0.0	0.011	0.000	0	0	0	97
		B		7.56Y	126.0	0.00	0.03	154.86	0	1092	421	93					0	0	0	164
		C		7.56Y	126.0	0.00	0.02	79.39	0	593	91	99					0	0	0	89

----- Feeder No. 505 (0505) Beginning with Device R1446 -----

R1446	68195	A	0505	7.56Y	126.0	0.00	0.02	94.17	0	675	227	95	0.00	0.0	0.011	0.000	0	0	0	255
		B		7.56Y	126.0	0.00	0.02	66.20	0	488	111	98					0	0	0	164
		C		7.56Y	126.0	0.00	0.02	96.81	0	697	223	95					0	0	0	240
46020	46172	A	1/0 ACSR 3	7.38Y	123.0	0.09	3.03	40.42	18	272	123	91	0.15	0.0	9.176	0.086	0	0	0	92
H		B		7.57Y	126.2	-0.01	-0.20	8.49	4	59	26	91					0	0	0	26 H
		C		7.46Y	124.4	0.01	1.61	5.35	2	36	16	91					0	0	0	11
46332	46020	A	1/0 ACSR 3	7.38Y	123.0	0.00	3.03	15.24	7	102	46	91	0.00	0.0	9.184	0.008	0	0	0	42
H		B		7.57Y	126.2	0.00	-0.20	8.49	4	59	26	91					0	0	0	26 H
		C		7.46Y	124.4	0.00	1.62	5.35	2	36	16	91					0	0	0	11

----- Feeder No. 506 (0506) Beginning with Device R1445 -----

R1445	68193	A	0506	7.56Y	126.0	0.00	0.03	146.50	0	1066	299	96	0.00	0.0	0.011	0.000	0	0	0	338
		B		7.56Y	126.0	0.00	0.02	141.94	0	1013	352	94					0	0	0	334
		C		7.56Y	126.0	0.00	0.02	95.16	0	697	176	97					0	0	0	256

----- 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	11556	59	0	0	0	0	426		0.00	12041
KVAR	4122	15	-1387	-20	0	0	856			3587

	Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase	-> 115.32 volts on T21136199093	10.68 volts on T21136199093	8.47 volts on T21136199093
B-Phase	-> 113.61 volts on T21166136371	12.39 volts on T21166136371	9.18 volts on T21166136371
C-Phase	-> 108.25 volts on T21134057297	17.75 volts on T21134057297	12.48 volts on T21134057297

Summary

Unbalanced Voltage Drop Report
Source: GRANTSLICK

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

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Units Displayed In Volts

-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
GRANTSLICK		A	GRANTSLICK	7.56Y	126.0	0.00	0.00	318.49	32	2264	819	94	0.00	0.0	0.000	0.000	0	0	0	576
		B		7.56Y	126.0	0.00	0.00	306.52	31	2190	756	95					0	0	0	589
		C		7.56Y	126.0	0.00	0.00	388.50	39	2745	1045	93					0	0	0	683
51183	GRANTSLICK	A	336 ACSR 3	7.56Y	126.0	0.00	0.00	318.49	64	2264	819	94	0.18	0.0	0.002	0.002	0	0	0	576
		B		7.56Y	126.0	0.00	0.00	306.52	61	2190	756	95					0	0	0	589
C		C		7.56Y	126.0	0.01	0.01	388.50	78	2745	1045	93					0	0	0	683 C
51184	51183	A	336 ACSR 3	7.56Y	126.0	0.00	0.01	318.49	64	2264	819	94	0.18	0.0	0.004	0.002	0	0	0	576
		B		7.56Y	126.0	0.00	0.01	306.52	61	2190	756	95					0	0	0	589
C		C		7.56Y	126.0	0.01	0.01	388.50	78	2745	1045	93					0	0	0	683 C

----- Feeder No. 302 (0302) Beginning with Device R1441 -----

R1441	68241	A	0302	7.56Y	126.0	0.00	0.01	100.82	0	717	259	94	0.00	0.0	0.011	0.000	0	0	0	218
		B		7.56Y	126.0	0.00	0.02	87.34	0	621	223	94					0	0	0	208
		C		7.56Y	126.0	0.00	0.02	133.35	0	946	348	94					0	0	0	282

----- Feeder No. 304 (0304) Beginning with Device R1439 -----

R1439	68245	A	0304	7.56Y	126.0	0.00	0.01	86.65	0	617	221	94	0.00	0.0	0.011	0.000	0	0	0	181
		B		7.56Y	126.0	0.00	0.01	86.70	0	617	220	94					0	0	0	206
		C		7.56Y	126.0	0.00	0.02	93.14	0	664	234	94					0	0	0	174

----- Feeder No. 303 (0303) Beginning with Device R1440 -----

R1440	68243	A	0303	7.56Y	126.0	0.00	0.02	131.02	0	931	338	94	0.00	0.0	0.011	0.000	0	0	0	177
		B		7.56Y	126.0	0.00	0.02	132.50	0	951	313	95					0	0	0	175
		C		7.56Y	126.0	0.00	0.02	162.09	0	1135	462	93					0	0	0	227

 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	7004	54	0	0	0	0	141		0.00	7199
KVAR	2821	22	-545	-31	0	0	353			2620

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 113.85 volts on T82370058965	12.15 volts on T82370058965	6.77 volts on T82370058965
B-Phase -> 115.50 volts on T31339198426	10.50 volts on T31339198426	6.24 volts on T31339198426
C-Phase -> 117.37 volts on T31322151723	8.63 volts on T31322151723	4.36 volts on T31322151723

Summary

Unbalanced Voltage Drop Report
 Source: HEBRON

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
 Title: OEC 2012-2013 CWP
 Case: Improved System with Grown Summer Load

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Units Displayed In Volts

-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
HEBRON		A	HEBRON	7.56Y	126.0	0.00	0.00	745.14	75	5215	2129	93	0.00	0.0	0.000	0.000	0	0	0	748
		B		7.56Y	126.0	0.00	0.00	778.41	78	5443	2238	92					0	0	0	818
		C		7.56Y	126.0	0.00	0.00	810.64	81	5675	2313	93					0	0	0	839
C 21483	HEBRON	A	336 ACSR 3	7.56Y	126.0	0.02	0.02	745.14	149	5215	2129	93	1.43	0.0	0.003	0.003	0	0	0	748 C
		B		7.56Y	126.0	0.02	0.02	778.41	156	5443	2238	92					0	0	0	818 C
		C		7.56Y	126.0	0.02	0.02	810.64	162	5675	2313	93					0	0	0	839 C
C 21495	21483	A	336 ACSR 3	7.56Y	126.0	0.02	0.03	745.14	149	5215	2128	93	1.43	0.0	0.006	0.003	0	0	0	748 C
		B		7.56Y	126.0	0.02	0.04	778.41	156	5442	2237	92					0	0	0	818 C
		C		7.56Y	126.0	0.02	0.04	810.64	162	5675	2311	93					0	0	0	839 C

----- Feeder No. 2204 (2204) Beginning with Device R1409 -----

R1409	68311	A	2204	7.56Y	126.0	0.00	0.04	201.63	0	1389	626	91	0.00	0.0	0.009	0.000	0	0	0	154
		B		7.56Y	126.0	0.00	0.05	197.09	0	1358	611	91					0	0	0	182
		C		7.56Y	126.0	0.00	0.05	182.17	0	1260	555	92					0	0	0	150

----- Feeder No. 2205 (2205) Beginning with Device R1375 -----

R1375	68313	A	2205	7.56Y	126.0	0.00	0.04	77.59	0	546	215	93	0.00	0.0	0.010	0.000	0	0	0	134
		B		7.56Y	126.0	0.00	0.04	75.61	0	532	209	93					0	0	0	117
		C		7.56Y	126.0	0.00	0.04	126.18	0	885	355	93					0	0	0	192

----- Feeder No. 2203 (2203) Beginning with Device R1407 -----

R1407	68309	A	2203	7.56Y	126.0	0.00	0.04	292.58	0	2059	806	93	0.00	0.0	0.009	0.000	0	0	0	449
		B		7.56Y	125.9	0.00	0.05	332.35	0	2331	935	93					0	0	0	508
		C		7.56Y	126.0	0.00	0.05	328.87	0	2309	920	93					0	0	0	486

----- Feeder No. 2202 (2202) Beginning with Device R1408 -----

R1408	68307	A	2202	7.56Y	126.0	0.00	0.04	173.51	0	1220	480	93	0.00	0.0	0.009	0.000	0	0	0	11
		B		7.56Y	126.0	0.00	0.04	173.51	0	1220	480	93					0	0	0	11
		C		7.56Y	126.0	0.00	0.04	173.51	0	1220	480	93					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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total
KW	15878	137	0	0	0	0	318	0.00	0.00	16333
KVAR	6218	53	-112	-305	0	0	825			6680

Lowest Voltage			Highest Accumulated Voltage Drop			Highest Element Voltage Drop		
A-Phase	->	117.52 volts on T62504047637	8.48 volts on T62504047637	5.58 volts on T62499060751				
B-Phase	->	119.11 volts on T62504144978	6.89 volts on T62504144978	3.06 volts on T62500061006				
C-Phase	->	118.31 volts on T62504103603	7.69 volts on T62504103603	3.85 volts on T62504235548				

Unbalanced Voltage Drop Report
 Source: Belleview

Summary

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
 Title: OEC 2012-2013 CWP
 Case: Improved System with Grown Summer Load

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Units Displayed In Volts
 -Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
Belleview		A		7.56Y	126.0	0.00	0.00	400.72	0	2839	1056	94	0.00	0.0	0.000	0.000	0	0	0	152
		B		7.56Y	126.0	0.00	0.00	412.80	0	2919	1105	94					0	0	0	159
		C		7.56Y	126.0	0.00	0.00	406.48	0	2878	1076	94					0	0	0	143
VR11	68535	A	AB100	7.56Y	126.0	-5.29	0.00	96.38	96	645	267	92	percent Boost= 4.20 Tap= 1.7						2	
C		B		7.56Y	126.0	-4.99	0.00	107.80	108	727	291	93	percent Boost= 3.96 Tap= 1.6						26 C	
C		C		7.56Y	126.0	-5.15	0.00	101.06	101	679	277	93	percent Boost= 4.09 Tap= 1.6						6 C	

 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	8308	198	0	0	0	0	130	0.00	0.00	8636
KVAR	4339	101	-1441	-5	0	0	243			3237

Lowest Voltage Highest Accumulated Voltage Drop Highest Element Voltage Drop

A-Phase -> 119.44 volts on T62481082616 6.56 volts on T62481082616 3.50 volts on T62480178742
 B-Phase -> 121.01 volts on 68535 4.99 volts on 68535 3.50 volts on T62480178742
 C-Phase -> 120.85 volts on 68535 5.15 volts on 68535 3.50 volts on T62480178742

Summary

Unbalanced Voltage Drop Report
 Source: SMITH II

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
 Title: OEC 2012-2013 CWP
 Case: Improved System with Grown Summer Load

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Units Displayed In Volts																					
-Base Voltage:120.0-																					
-----Element-----																	Cons		Thru		
Element Name	Parent Name	Cnf	Type/Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	On	Thru	
SMITH II		A	SMITH II	7.56Y	126.0	0.00	0.00	442.11	44	2984	1506	89	0.00	0.0	0.000	0.000	0	0	0	155	
		B		7.56Y	126.0	0.00	0.00	431.64	43	2901	1495	89					0	0	0	92	
		C		7.56Y	126.0	0.00	0.00	422.43	42	2837	1466	89					0	0	0	91	
C 34175	SMITH II	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	442.11	88	2984	1506	89	0.52	0.0	0.003	0.003	0	0	0	155 C	
C		B		7.56Y	126.0	0.01	0.01	431.64	86	2901	1495	89					0	0	0	92 C	
C		C		7.56Y	126.0	0.01	0.01	422.43	84	2837	1466	89					0	0	0	91 C	
C 34183	34175	A	336 ACSR 3	7.56Y	126.0	0.01	0.02	442.11	88	2984	1505	89	0.29	0.0	0.005	0.002	0	0	0	155 C	
C		B		7.56Y	126.0	0.01	0.02	431.64	86	2900	1495	89					0	0	0	92 C	
C		C		7.56Y	126.0	0.01	0.02	422.43	84	2837	1466	89					0	0	0	91 C	
----- Feeder No. 5201 (5201) Beginning with Device R1411 -----																					
R1411	68385	A	5201	7.56Y	126.0	0.00	0.03	180.69	0	1192	666	87	0.00	0.0	0.013	0.000	0	0	0	29	
		B		7.56Y	126.0	0.00	0.03	193.54	0	1283	703	88					0	0	0	38	
		C		7.56Y	126.0	0.00	0.03	180.66	0	1192	666	87					0	0	0	29	
----- Feeder No. 5202 (5202) Beginning with Device R1410 -----																					
R1410	68383	A	5202	7.56Y	126.0	0.00	0.04	261.69	0	1791	839	91	0.00	0.0	0.013	0.000	0	0	0	127	
		B		7.56Y	126.0	0.00	0.04	238.21	0	1617	791	90					0	0	0	54	
		C		7.56Y	126.0	0.00	0.04	241.95	0	1645	799	90					0	0	0	63	

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	8502	113	0	0	0	0	107	0.00	8722
KVAR	4459	60	-325	-89	0	0	362		4467

Lowest Voltage Highest Accumulated Voltage Drop Highest Element Voltage Drop
 A-Phase -> 118.77 volts on T73487074056 7.23 volts on T73487074056 4.97 volts on T73487074056
 B-Phase -> 119.08 volts on T73487074056 6.92 volts on T73487074056 4.97 volts on T73487074056
 C-Phase -> 118.91 volts on T73487074056 7.09 volts on T73487074056 4.97 volts on T73487074056

Summary

Unbalanced Voltage Drop Report
 Source: PENN

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
 Title: OEC 2012-2013 CWP

Units Displayed In Volts																					
-Base Voltage:120.0-																					
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru	
PENN		A	PENN	7.56Y	126.0	0.00	0.00	434.45	43	3225	624	98	0.00	0.0	0.000	0.000	0	0	0	948	
		B		7.56Y	126.0	0.00	0.00	468.36	47	3460	752	98					0	0	0	1049	
		C		7.56Y	126.0	0.00	0.00	410.15	41	3040	609	98					0	0	0	891	
C 30682	PENN	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	434.45	87	3225	624	98	0.43	0.0	0.003	0.003	0	0	0	948	C
C		B		7.56Y	126.0	0.01	0.01	468.36	94	3460	752	98					0	0	0	1049	C
C		C		7.56Y	126.0	0.01	0.01	410.15	82	3040	609	98					0	0	0	891	C
C 30683	30682	A	336 ACSR 3	7.56Y	126.0	0.01	0.02	434.45	87	3224	624	98	0.43	0.0	0.005	0.003	0	0	0	948	C
C		B		7.56Y	126.0	0.01	0.02	468.36	94	3460	752	98					0	0	0	1049	C
C		C		7.56Y	126.0	0.01	0.01	410.15	82	3040	608	98					0	0	0	891	C
----- Feeder No. 704 (0704) Beginning with Device R1401 -----																					
R1401	68369	A	0704	7.56Y	126.0	0.00	0.04	217.13	0	1584	429	97	0.00	0.0	0.015	0.000	0	0	0	417	
		B		7.56Y	126.0	0.00	0.04	222.88	0	1621	459	96					0	0	0	476	
		C		7.56Y	126.0	0.00	0.04	204.89	0	1500	387	97					0	0	0	393	
----- Feeder No. 703 (0703) Beginning with Device R1402 -----																					
R1402	68367	A	0703	7.56Y	126.0	0.00	0.02	83.89	0	633	-41	-100	0.00	0.0	0.011	0.000	0	0	0	171	
		B		7.56Y	126.0	0.00	0.02	90.47	0	684	0	-100					0	0	0	168	
		C		7.56Y	126.0	0.00	0.02	76.18	0	576	-10	-100					0	0	0	143	
----- Feeder No. 702 (0702) Beginning with Device R1403 -----																					
R1403	68365	A	0702	7.56Y	126.0	0.00	0.02	84.44	0	616	168	96	0.00	0.0	0.012	0.000	0	0	0	243	
		B		7.56Y	126.0	0.00	0.02	79.52	0	580	159	96					0	0	0	230	
		C		7.56Y	126.0	0.00	0.02	87.49	0	635	183	96					0	0	0	257	
----- Feeder No. 701 (0701) Beginning with Device R1404 -----																					
R1404	68363	A	0701	7.56Y	126.0	0.00	0.02	52.56	0	392	67	99	0.00	0.0	0.012	0.000	0	0	0	117	
		B		7.56Y	126.0	0.00	0.03	78.13	0	575	133	97					0	0	0	175	
		C		7.56Y	126.0	0.00	0.02	44.01	0	329	48	99					0	0	0	98	

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	9232	137	0	0	0	0	356		0.00	9725
KVAR	2661	40	-1241	-237	0	0	762			1985

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 115.25 volts on T51033131005	10.75 volts on T51033131005	5.48 volts on T21082017217
B-Phase -> 105.75 volts on T21093185652	20.25 volts on T21093185652	18.17 volts on T21093185652
C-Phase -> 105.43 volts on T11069201977	20.57 volts on T11069201977	16.19 volts on T11069201977

Unbalanced Voltage Drop Report
Source: Messier

Summary

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
Messier		A		7.56Y	126.0	0.00	0.00	851.43	0	5830	2728	91	0.00	0.0	0.000	0.000	0	0	0	0
		B		7.56Y	126.0	0.00	0.00	851.43	0	5830	2728	91					0	0	0	0
		C		7.56Y	126.0	0.00	0.00	851.43	0	5830	2728	91					0	0	0	0

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total
KW	17061	275	0	0	0	0	154		0.00	17490
KVAR	7286	133	0	-4	0	0	770			8185

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 119.95 volts on T61409029092	6.05 volts on T61409029092	6.05 volts on T61409029092
B-Phase -> 119.95 volts on T61409029092	6.05 volts on T61409029092	6.05 volts on T61409029092
C-Phase -> 119.95 volts on T61409029092	6.05 volts on T61409029092	6.05 volts on T61409029092

Summary

Unbalanced Voltage Drop Report
Source: RICHARDSON

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
RICHARDSON		A	RICHARDSON	7.56Y	126.0	0.00	0.00	356.48	36	2576	792	96	0.00	0.0	0.000	0.000	0	0	0	634
		B		7.56Y	126.0	0.00	0.00	364.02	36	2623	831	95					0	0	0	627
		C		7.56Y	126.0	0.00	0.00	341.12	34	2466	756	96					0	0	0	601

----- Feeder No. 1903 (1903) Beginning with Device R1465 -----

R1465	68229	A	1903	7.56Y	126.0	0.00	0.02	161.51	0	1160	380	95	0.00	0.0	0.011	0.000	0	0	0	270
		B		7.56Y	126.0	0.00	0.02	159.63	0	1146	379	95					0	0	0	267
		C		7.56Y	126.0	0.00	0.02	162.94	0	1170	386	95					0	0	0	273

----- Feeder No. 1902 (1902) Beginning with Device R1464 -----

R1464	68227	A	1902	7.56Y	126.0	0.00	0.02	195.02	0	1416	411	96	0.00	0.0	0.011	0.000	0	0	0	364
		B		7.56Y	126.0	0.00	0.02	204.41	0	1477	452	96					0	0	0	360
		C		7.56Y	126.0	0.00	0.02	178.25	0	1296	369	96					0	0	0	328

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	7448	106	0	0	0	0	111		0.00	7665
KVAR	2306	33	-154	-141	0	0	334			2378

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
----------------	----------------------------------	------------------------------

A-Phase -> 119.55 volts on T71454154120 6.45 volts on T71454154120 3.79 volts on T71454154120
 B-Phase -> 95.26 volts on T71454098046 30.74 volts on T71454098046 27.64 volts on T71454098046
 C-Phase -> 119.72 volts on T71454120804 6.28 volts on T71454120804 4.77 volts on T71454120804

Summary

Unbalanced Voltage Drop Report
 Source: SMITH

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
 Title: OEC 2012-2013 CWP
 Case: Improved System with Grown Summer Load

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
SMITH		A	SMITH	7.56Y	126.0	0.00	0.00	411.27	41	2864	1210	92	0.00	0.0	0.000	0.000	0	0	0	53
		B		7.56Y	126.0	0.00	0.00	395.00	40	2737	1193	92					0	0	0	30
		C		7.56Y	126.0	0.00	0.00	401.04	40	2787	1194	92					0	0	0	59
C 34240	SMITH	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	411.27	82	2864	1210	92	0.25	0.0	0.002	0.002	0	0	0	53 C
C		B		7.56Y	126.0	0.01	0.01	395.00	79	2737	1193	92					0	0	0	30 C
C		C		7.56Y	126.0	0.01	0.01	401.04	80	2787	1194	92					0	0	0	59 C
C 34233	34240	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	411.27	82	2864	1210	92	0.25	0.0	0.004	0.002	0	0	0	53 C
C		B		7.56Y	126.0	0.01	0.01	395.00	79	2737	1193	92					0	0	0	30 C
C		C		7.56Y	126.0	0.01	0.01	401.04	80	2787	1194	92					0	0	0	59 C

----- Feeder No. 1505 (1505) Beginning with Device R1413 -----

R1413	68387	A	1505	7.56Y	126.0	0.00	0.03	185.56	0	1294	542	92	0.00	0.0	0.011	0.000	0	0	0	24
		B		7.56Y	126.0	0.00	0.02	177.93	0	1230	544	91					0	0	0	17
		C		7.56Y	126.0	0.00	0.02	171.43	0	1188	518	92					0	0	0	22

----- Feeder No. 1503 (1503) Beginning with Device R1412 -----

R1412	68381	A	1503	7.56Y	126.0	0.00	0.03	225.71	0	1570	668	92	0.00	0.0	0.011	0.000	0	0	0	29
		B		7.56Y	126.0	0.00	0.03	217.08	0	1507	648	92					0	0	0	13
		C		7.56Y	126.0	0.00	0.03	229.61	0	1598	676	92					0	0	0	37

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	8154	84	0	0	0	0	150		0.00	8388
KVAR	4544	33	-1295	-67	0	0	384			3598

Lowest Voltage Highest Accumulated Voltage Drop Highest Element Voltage Drop
 A-Phase -> 117.56 volts on T62494233999 8.44 volts on T62494233999 5.91 volts on T62494233999
 B-Phase -> 117.81 volts on T62494233999 8.19 volts on T62494233999 7.64 volts on T62495182141
 C-Phase -> 117.71 volts on T62494233999 8.29 volts on T62494233999 5.90 volts on T62494233999

Summary

Unbalanced Voltage Drop Report
 Source: DURO II

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
 Title: OEC 2012-2013 CWP

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
DURO II		A	DURO II	7.56Y	126.0	0.00	0.00	312.08	31	2206	835	94	0.00	0.0	0.000	0.000	0	0	0	431
		B		7.56Y	126.0	0.00	0.00	242.61	24	1736	590	95					0	0	0	311
		C		7.56Y	126.0	0.00	0.00	330.58	33	2337	886	94					0	0	0	456

----- Feeder No. 5401 (5401) Beginning with Device R1379 -----

R1379	68181	A	5401	7.56Y	126.0	0.00	0.01	58.98	0	445	27	100	0.00	0.0	0.012	0.000	0	0	0	0
		B		7.56Y	126.0	0.00	0.01	58.98	0	445	27	100					0	0	0	0
		C		7.56Y	126.0	0.00	0.02	58.98	0	445	27	100					0	0	0	0

----- Feeder No. 5402 (5402) Beginning with Device R1430 -----

R1430	68179	A	5402	7.56Y	126.0	0.00	0.02	137.04	0	946	422	91	0.00	0.0	0.011	0.000	0	0	0	276
		B		7.56Y	126.0	0.00	0.01	107.79	0	747	326	92					0	0	0	209
		C		7.56Y	126.0	0.00	0.03	152.89	0	1057	466	91					0	0	0	301

----- Feeder No. 5403 (5403) Beginning with Device R1380 -----

R1380	68177	A	5403	7.56Y	126.0	0.00	0.02	119.34	0	815	387	90	0.00	0.0	0.011	0.000	0	0	0	155
		B		7.56Y	126.0	0.00	0.01	78.60	0	544	238	92					0	0	0	102
		C		7.56Y	126.0	0.00	0.02	121.96	0	834	392	90					0	0	0	155

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	6105	97	0	0	0	0	78	0.00		6280
KVAR	2882	46	-738	-89	0	0	211			2312

Lowest Voltage			Highest Accumulated Voltage Drop			Highest Element Voltage Drop		
A-Phase	->	114.11 volts on T71410209713	11.89 volts on T71410209713	10.10 volts on T71410209713				
B-Phase	->	122.20 volts on T72424097163	3.80 volts on T72424097163	2.27 volts on T71410021798				
C-Phase	->	117.72 volts on T61423100767	8.28 volts on T61423100767	4.20 volts on T61423100767				

Unbalanced Voltage Drop Report
Source: GRANTS LICK II

Summary

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
GRANTS LICK II		A	GRANTS LICK	15.12Y	126.0	0.00	0.00	267.32	27	3996	606	99	0.00	0.0	0.000	0.000	0	0	0	1029
		B		15.12Y	126.0	0.00	0.00	275.34	28	4122	584	99					0	0	0	1126
		C		15.12Y	126.0	0.00	0.00	347.10	35	5187	798	99					0	0	0	1365

----- Feeder No. 5105 (5105) Beginning with Device R1444 -----

R1444	68239	A	5105	15.12Y	126.0	0.00	0.00	57.35	0	848	180	98	0.00	0.0	0.011	0.000	0	0	0	251
		B		15.12Y	126.0	0.00	0.01	69.94	0	1033	224	98					0	0	0	307
		C		15.12Y	126.0	0.00	0.01	59.05	0	877	167	98					0	0	0	270

----- Feeder No. 5106 (5106) Beginning with Device R1443 -----

R1443	68237	A	5106	15.12Y	126.0	0.00	0.00	102.14	0	1542	76	100	0.00	0.0	0.011	0.000	0	0	0	385
		B		15.12Y	126.0	0.00	0.01	89.65	0	1354	56	100					0	0	0	303
		C		15.12Y	126.0	0.00	0.01	143.16	0	2161	125	100					0	0	0	517

----- Feeder No. 5101 (5101) Beginning with Device R1442 -----

R1442	68235	A	5101	15.12Y	126.0	0.00	0.00	108.68	0	1606	349	98	0.00	0.0	0.011	0.000	0	0	0	393
		B		15.12Y	126.0	0.00	0.01	116.44	0	1734	304	98					0	0	0	516
		C		15.12Y	126.0	0.00	0.01	146.03	0	2149	506	97					0	0	0	578

----- 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	12808	226	0	0	0	0	271		0.00	13305
KVAR	3073	51	-1348	-362	0	0	575			1988

	Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase	-> 118.15 volts on T71334172598	7.85 volts on T71334172598	5.03 volts on T71334172598
B-Phase	-> 114.63 volts on T82383095327	11.37 volts on T82383095327	10.55 volts on T82383095327
C-Phase	-> 117.55 volts on T81413028564	8.45 volts on T81413028564	5.13 volts on T81413028564

Summary

Unbalanced Voltage Drop Report
Source: BAVARIAN

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

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Units Displayed In Volts

-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																	KW	KVAR	Cons On	Cons Thru
BAVARIAN		A	BAVARIAN	7.56Y	126.0	0.00	0.00	173.48	17	1282	278	98	0.00	0.0	0.000	0.000	0	0	0	263
		B		7.56Y	126.0	0.00	0.00	157.55	16	1171	217	98					0	0	0	252
		C		7.56Y	126.0	0.00	0.00	220.83	22	1629	364	98					0	0	0	293
C 30960	BAVARIAN	A	1/0 ACSR 3	7.56Y	126.0	0.01	0.01	173.48	75	1282	278	98	0.18	0.0	0.002	0.002	0	0	0	263 C
		B		7.56Y	126.0	0.01	0.01	157.55	69	1171	217	98					0	0	0	252
		C		7.56Y	126.0	0.01	0.01	220.83	96	1629	364	98					0	0	0	293 C
C 62591	30960	A	1/0 ACSR 3	7.56Y	126.0	0.01	0.01	173.48	75	1282	278	98	0.18	0.0	0.004	0.002	0	0	0	263 C
		B		7.56Y	126.0	0.01	0.01	157.55	69	1171	217	98					0	0	0	252
		C		7.56Y	126.0	0.01	0.02	220.83	96	1629	364	98					0	0	0	293 C

----- Feeder No. 2302 (2302) Beginning with Device R1429 -----

R1429	68373	A	2302	7.56Y	126.0	0.00	0.01	79.31	0	583	139	97	0.00	0.0	0.007	0.000	0	0	0	137
		B		7.56Y	126.0	0.00	0.01	71.47	0	530	104	98					0	0	0	139
		C		7.56Y	126.0	0.00	0.02	82.42	0	608	135	98					0	0	0	123

----- Feeder No. 2301 (2301) Beginning with Device R1428 -----

R1428	68371	A	2301	7.56Y	126.0	0.00	0.01	94.20	0	699	138	98	0.00	0.0	0.007	0.000	0	0	0	126
		B		7.56Y	126.0	0.00	0.01	86.08	0	641	113	98					0	0	0	113
		C		7.56Y	126.0	0.00	0.02	138.41	0	1021	229	98					0	0	0	170

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	3951	32	0	0	0	0	100		0.00	4082
KVAR	1406	11	-714	-61	0	0	216			859

	Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase ->	120.22 volts on T61362198027	5.78 volts on T61362198027	4.07 volts on T61363011455
B-Phase ->	118.47 volts on T61363066511	7.53 volts on T61363066511	4.47 volts on T61363066511
C-Phase ->	111.43 volts on T61363066665	14.57 volts on T61363066665	8.48 volts on T61363066665

Summary

Unbalanced Voltage Drop Report
Source: SMOOT

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																KW	KVAR	On	Thru	
SMOOT		A	SMOOT	7.56Y	126.0	0.00	0.00	453.17	45	3244	1101	95	0.00	0.0	0.000	0.000	0	0	0	768
		B		7.56Y	126.0	0.00	0.00	421.71	42	3034	981	95					0	0	0	702
		C		7.56Y	126.0	0.00	0.00	414.61	41	2980	973	95					0	0	0	683
C 25649	SMOOT	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	453.17	91	3244	1101	95	0.29	0.0	0.002	0.002	0	0	0	768 C
C		B		7.56Y	126.0	0.01	0.01	421.71	84	3034	981	95					0	0	0	702 C
C		C		7.56Y	126.0	0.01	0.01	414.61	83	2980	973	95					0	0	0	683 C
C 25646	25649	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	453.17	91	3244	1101	95	0.29	0.0	0.004	0.002	0	0	0	768 C
C		B		7.56Y	126.0	0.01	0.01	421.71	84	3034	980	95					0	0	0	702 C
C		C		7.56Y	126.0	0.01	0.01	414.61	83	2980	973	95					0	0	0	683 C

----- Feeder No. 1603 (1603) Beginning with Device R1177 -----

R1177	68343	A	1603	7.56Y	126.0	0.00	0.02	82.25	0	594	184	96	0.00	0.0	0.011	0.000	0	0	0	139
		B		7.56Y	126.0	0.00	0.01	55.64	0	403	120	96					0	0	0	93
		C		7.56Y	126.0	0.00	0.01	49.72	0	360	108	96					0	0	0	78

----- Feeder No. 1602 (1602) Beginning with Device R1176 -----

R1176	68341	A	1602	7.56Y	126.0	0.00	0.03	280.59	0	1996	717	94	0.00	0.0	0.011	0.000	0	0	0	473
		B		7.56Y	126.0	0.00	0.02	238.37	0	1708	575	95					0	0	0	402
		C		7.56Y	126.0	0.00	0.03	255.67	0	1830	621	95					0	0	0	409

----- Feeder No. 1601 (1601) Beginning with Device R1175 -----

R1175	68339	A	1601	7.56Y	126.0	0.00	0.02	90.46	0	654	199	96	0.00	0.0	0.011	0.000	0	0	0	156
		B		7.56Y	126.0	0.00	0.02	127.75	0	923	285	96					0	0	0	207
		C		7.56Y	126.0	0.00	0.02	109.26	0	789	243	96					0	0	0	196

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	9002	127	0	0	0	0	128		0.00	9257
KVAR	2890	40	-38	-148	0	0	310			3055

Lowest Voltage
A-Phase -> 119.33 volts on T62464006773
B-Phase -> 121.91 volts on T62464033608
C-Phase -> 119.93 volts on T62464090985

Highest Accumulated Voltage Drop
6.67 volts on T62464006773
4.09 volts on T62464033608
6.07 volts on T62464090985

Highest Element Voltage Drop
3.27 volts on T62464137068
1.65 volts on T61450142550
2.30 volts on T62464161753

Unbalanced Voltage Drop Report
Source: BURLINGTON

Summary

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
BURLINGTON		A	BURLINGTON	7.56Y	126.0	0.00	0.00	452.37	45	3231	1120	94	0.00	0.0	0.000	0.000	0	0	0	771
		B		7.56Y	126.0	0.00	0.00	377.08	38	2716	866	95					0	0	0	641
		C		7.56Y	126.0	0.00	0.00	403.30	40	2895	955	95					0	0	0	724
C 21003	BURLINGTON	A	336 ACSR N	7.56Y	126.0	0.01	0.01	452.37	90	3231	1120	94	0.55	0.0	0.004	0.004	0	0	0	771 C
C		B		7.56Y	126.0	0.01	0.01	377.08	75	2716	866	95					0	0	0	641 C
C		C		7.56Y	126.0	0.01	0.01	403.30	81	2895	955	95					0	0	0	724 C
C 21011	21003	A	336 ACSR N	7.56Y	126.0	0.01	0.02	452.37	90	3231	1120	94	0.35	0.0	0.006	0.002	0	0	0	771 C
C		B		7.56Y	126.0	0.01	0.02	377.08	75	2716	866	95					0	0	0	641 C
C		C		7.56Y	126.0	0.01	0.02	403.30	81	2895	955	95					0	0	0	724 C
----- Feeder No. 2402 (2402) Beginning with Device R1376 -----																				
R1376	68305	A	2402	7.56Y	126.0	0.00	0.03	147.38	0	1034	414	93	0.00	0.0	0.012	0.000	0	0	0	265
		B		7.56Y	126.0	0.00	0.02	152.21	0	1069	425	93					0	0	0	278
		C		7.56Y	126.0	0.00	0.03	123.54	0	868	344	93					0	0	0	229
----- Feeder No. 2403 (2403) Beginning with Device R1180 -----																				
R1180	68303	A	2403	7.56Y	126.0	0.00	0.03	213.30	0	1562	399	97	0.00	0.0	0.009	0.000	0	0	0	357
		B		7.56Y	126.0	0.00	0.02	194.54	0	1429	345	97					0	0	0	304
		C		7.56Y	126.0	0.00	0.03	231.52	0	1690	453	97					0	0	0	387
----- Feeder No. 2405 (2405) Beginning with Device R1374 -----																				
R1374	68301	A	2405	7.56Y	126.0	0.00	0.02	-0.00	0	0	0	100	0.00	0.0	0.010	0.000	0	0	0	0
		B		7.56Y	126.0	0.00	0.02	-0.00	0	0	0	0					0	0	0	0
		C		7.56Y	126.0	0.00	0.02	-0.00	0	0	0	0					0	0	0	0
----- Feeder No. 2404 (2404) Beginning with Device R1182 -----																				
R1182	68299	A	2404	7.56Y	126.0	0.00	0.03	93.24	0	635	307	90	0.00	0.0	0.015	0.000	0	0	0	149
		B		7.56Y	126.0	0.00	0.02	31.38	0	217	96	91					0	0	0	59
		C		7.56Y	126.0	0.00	0.03	49.16	0	337	157	91					0	0	0	108

 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	8593	148	0	0	0	0	101	0.00	8843
KVAR	3522	61	-684	-218	0	0	261		2942

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 115.83 volts on T62474224418	10.17 volts on T62474224418	9.33 volts on T62474224418
B-Phase -> 119.46 volts on T62474163231	6.54 volts on T62474163231	5.43 volts on T62474163231
C-Phase -> 120.54 volts on T62485215501	5.46 volts on T62485215501	2.09 volts on T62463019150

Summary

Unbalanced Voltage Drop Report
 Source: BRISTOW II

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
----- Feeder No. 5605 (5605) Beginning with Device R1400 -----																				
R1400	68187	A	5605	7.56Y	126.0	0.00	0.02	183.63	0	1276	545	92	0.00	0.0	0.009	0.000	0	0	0	17
		B		7.56Y	126.0	0.00	0.02	187.61	0	1304	558	92					0	0	0	20
		C		7.56Y	126.0	0.00	0.02	188.00	0	1308	555	92					0	0	0	31
----- Feeder No. 5607 (5607) Beginning with Device R1371 -----																				
R1371	68185	A	5607	7.56Y	126.0	0.00	0.01	40.66	0	282	121	92	0.00	0.0	0.009	0.000	0	0	0	124
		B		7.56Y	126.0	0.00	0.02	72.53	0	504	217	92					0	0	0	199
		C		7.56Y	126.0	0.00	0.02	79.30	0	552	234	92					0	0	0	211
----- Feeder No. 5608 (5608) Beginning with Device R1385 -----																				
R1385	68183	A	5608	7.56Y	126.0	0.00	0.02	189.42	0	1331	527	93	0.00	0.0	0.009	0.000	0	0	0	353
		B		7.56Y	126.0	0.00	0.02	199.12	0	1398	558	93					0	0	0	373
		C		7.56Y	126.0	0.00	0.02	159.61	0	1122	442	93					0	0	0	294

 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	8815	90	0	0	0	0	174	0.00	9078

KVAR 4118 40 -637 -143 0 0 382 3761

Lowest Voltage Highest Accumulated Voltage Drop Highest Element Voltage Drop
 A-Phase -> 118.84 volts on T61438201490 7.16 volts on T61438201490 4.23 volts on T61438201490
 B-Phase -> 118.73 volts on T61438201490 7.27 volts on T61438201490 5.96 volts on T72438099308
 C-Phase -> 118.81 volts on T61438201490 7.19 volts on T61438201490 4.23 volts on T61438201490

Summary

Unbalanced Voltage Drop Report
 Source: DURO

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
----- Feeder No. 1706 (1706) Beginning with Device R1424 -----																				
DURO		A	DURO	7.56Y	126.0	0.00	0.00	46.94	5	288	-208	-81	0.00	0.0	0.000	0.000	0	0	0	2
		B		7.56Y	126.0	0.00	0.00	46.94	5	288	-208	-81					0	0	0	5
		C		7.56Y	126.0	0.00	0.00	46.94	5	288	-208	-81					0	0	0	2
----- Feeder No. 1707 (1707) Beginning with Device R1423 -----																				
R1424	68175	A	1706	7.56Y	126.0	0.00	-0.00	0.00	0	0	0	100	0.00	0.0	0.012	0.000	0	0	0	0
		B		7.56Y	126.0	0.00	-0.00	0.00	0	0	0	100					0	0	0	0
		C		7.56Y	126.0	0.00	-0.00	0.00	0	0	0	100					0	0	0	0
----- Feeder No. 1705 (1705) Beginning with Device R1399 -----																				
R1423	68173	A	1707	7.56Y	126.0	0.00	-0.00	46.91	0	288	-208	-81	0.00	0.0	0.013	0.000	0	0	0	2
		B		7.56Y	126.0	0.00	-0.00	46.91	0	288	-208	-81					0	0	0	5
		C		7.56Y	126.0	0.00	-0.00	46.91	0	288	-208	-81					0	0	0	2
R1399	68171	A	1705	7.56Y	126.0	0.00	-0.00	-0.04	0	0	0	100	0.00	0.0	0.009	0.000	0	0	0	0
		B		7.56Y	126.0	0.00	-0.00	-0.04	0	0	0	0					0	0	0	0
		C		7.56Y	126.0	0.00	-0.00	-0.04	0	0	0	0					0	0	0	0

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	829	29	0	0	0	0	4	0.00	863
KVAR	-617	-22	0	-3	0	0	18		-624

Lowest Voltage Highest Accumulated Voltage Drop Highest Element Voltage Drop
 A-Phase -> 125.50 volts on T61409022121 0.50 volts on T61409022121 0.56 volts on T61409022121
 B-Phase -> 125.50 volts on T61409022121 0.50 volts on T61409022121 0.56 volts on T61409022121
 C-Phase -> 125.50 volts on T61409022121 0.50 volts on T61409022121 0.56 volts on T61409022121

Summary

Unbalanced Voltage Drop Report
 Source: GALLATIN

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																	KW	KVAR	On	Thru
GALLATIN		A	GALLATIN	15.12Y	126.0	0.00	0.00	274.02	27	3907	1379	94	0.00	0.0	0.000	0.000	0	0	0	406
		B		15.12Y	126.0	0.00	0.00	229.65	23	3284	1129	95					0	0	0	129
		C		15.12Y	126.0	0.00	0.00	248.79	25	3556	1228	95					0	0	0	281

----- Feeder No. 1802 (1802) Beginning with Device R1432 -----

R1432	68255	A	1802	15.12Y	126.0	0.00	0.01	237.28	0	3355	1269	94	0.00	0.0	0.009	0.000	0	0	0	396
		B		15.12Y	126.0	0.00	0.01	194.40	0	2753	1028	94					0	0	0	116
		C		15.12Y	126.0	0.00	0.01	212.68	0	3013	1123	94					0	0	0	267

----- Feeder No. 1803 (1803) Beginning with Device R1431 -----

R1431	68257	A	1803	15.12Y	126.0	0.00	0.01	37.19	0	552	109	98	0.00	0.0	0.009	0.000	0	0	0	9
		B		15.12Y	126.0	0.00	0.00	35.68	0	530	100	98					0	0	0	13
		C		15.12Y	126.0	0.00	0.01	36.54	0	543	104	98					0	0	0	14

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	10434	22	0	0	0	0	291		0.00	10746
KVAR	4429	25	-1292	-60	0	0	633			3735

	Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase ->	118.33 volts on 4665	7.67 volts on 4665	4.25 volts on T41289228796
B-Phase ->	114.63 volts on T41292019683	11.37 volts on T41292019683	9.11 volts on T41292019683
C-Phase ->	113.57 volts on T41292099239	12.43 volts on T41292099239	8.49 volts on T41292099239

Summary

Unbalanced Voltage Drop Report
Source: DOWNING II

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																	KW	KVAR	On	Thru
DOWNING II		A	DOWNING II	7.56Y	126.0	0.00	0.00	151.01	15	1106	282	97	0.00	0.0	0.000	0.000	0	0	0	13
		B		7.56Y	126.0	0.00	0.00	149.38	15	1095	277	97					0	0	0	15
		C		7.56Y	126.0	0.00	0.00	148.03	15	1085	274	97					0	0	0	14

----- Feeder No. 5707 (5707) Beginning with Device R1382 -----

R1382	68353	A	5707	7.56Y	126.0	0.00	0.01	151.01	0	1106	282	97	0.00	0.0	0.010	0.000	0	0	0	13
		B		7.56Y	126.0	0.00	0.01	149.38	0	1095	277	97					0	0	0	15
		C		7.56Y	126.0	0.00	0.01	148.03	0	1085	274	97					0	0	0	14

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	3187	33	0	0	0	0	67		0.00	3286
KVAR	1342	14	-635	-34	0	0	147			833

Lowest Voltage
 A-Phase -> 121.08 volts on T62501191282
 B-Phase -> 121.10 volts on T62501191282
 C-Phase -> 121.14 volts on T62501191282

Highest Accumulated Voltage Drop
 4.92 volts on T62501191282
 4.90 volts on T62501191282
 4.86 volts on T62501191282

Highest Element Voltage Drop
 2.20 volts on T62493059087
 2.20 volts on T62493059087
 2.20 volts on T62493059087

Summary

Unbalanced Voltage Drop Report
 Source: NOEL

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																	KW	KVAR	On	Thru
NOEL		A	NOEL	7.56Y	126.0	0.00	0.00	463.08	46	3296	1180	94	0.00	0.0	0.000	0.000	0	0	0	884
		B		7.56Y	126.0	0.00	0.00	440.07	44	3115	1168	94					0	0	0	812
		C		7.56Y	126.0	0.00	0.00	411.98	41	2944	1016	95					0	0	0	731
C 26540	NOEL	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	463.08	93	3296	1180	94	0.45	0.0	0.003	0.003	0	0	0	884 C
C		B		7.56Y	126.0	0.01	0.01	440.07	88	3115	1168	94					0	0	0	812 C
C		C		7.56Y	126.0	0.01	0.01	411.98	82	2944	1016	95					0	0	0	731 C
C 26533	26540	A	336 ACSR 3	7.56Y	126.0	0.01	0.02	463.08	93	3296	1179	94	0.45	0.0	0.006	0.003	0	0	0	884 C
C		B		7.56Y	126.0	0.01	0.02	440.07	88	3115	1168	94					0	0	0	812 C
C		C		7.56Y	126.0	0.01	0.02	411.98	82	2944	1015	95					0	0	0	731 C
----- Feeder No. 2102 (2102) Beginning with Device R1386 -----																				
R1386	68361	A	2102	7.56Y	126.0	0.00	0.03	143.53	0	1012	391	93	0.00	0.0	0.012	0.000	0	0	0	324
		B		7.56Y	126.0	0.00	0.03	124.39	0	857	387	91					0	0	0	276
		C		7.56Y	126.0	0.00	0.02	87.39	0	620	228	94					0	0	0	210
L 23251	22846	A	1/0 ACSR 3	7.08Y	118.0	0.13	8.03	75.31	33	505	174	95	1.14	0.1	8.156	0.073	0	0	0	166
L		B		7.06Y	117.7	0.14	8.26	99.47	43	660	245	94					0	0	0	198 L
		C		7.43Y	123.8	0.02	2.18	37.27	16	264	85	95					0	0	0	87
L 23368	23251	A	1/0 ACSR 3	7.07Y	117.9	0.09	8.12	75.31	33	504	173	95	0.79	0.1	8.207	0.051	0	0	0	166
L		B		7.06Y	117.6	0.10	8.36	99.47	43	659	244	94					0	0	0	198 L
		C		7.43Y	123.8	0.01	2.19	37.27	16	264	85	95					0	0	0	87
L 23471	23368	A	1/0 ACSR 3	7.06Y	117.7	0.17	8.29	75.31	33	504	173	95	1.56	0.1	8.307	0.100	0	0	0	166 L
L		B		7.05Y	117.4	0.19	8.56	99.13	43	656	242	94					0	0	0	197 L
		C		7.43Y	123.8	0.03	2.22	37.27	16	264	85	95					0	0	0	87
L 22916	23471	A	1/0 ACSR 3	7.05Y	117.6	0.16	8.45	75.31	33	503	173	95	1.41	0.1	8.398	0.091	0	0	0	166 L
L		B		7.04Y	117.3	0.18	8.73	99.13	43	656	241	94					0	0	0	197 L
		C		7.43Y	123.8	0.03	2.25	37.27	16	264	85	95					0	0	0	87
L 23956	22916	A	1/0 ACSR 3	7.05Y	117.5	0.06	8.51	75.31	33	502	172	95	0.54	0.0	8.433	0.035	0	0	0	166 L
L		B		7.03Y	117.2	0.07	8.80	99.13	43	655	240	94					0	0	0	197 L
		C		7.42Y	123.7	0.01	2.26	37.27	16	264	84	95					0	0	0	87
L 68519	23956	A	1/0 ACSR 3	7.05Y	117.5	0.01	8.51	75.31	33	502	172	95	0.07	0.0	8.437	0.004	0	0	0	166 L

L		B		7.03Y	117.2	0.01	8.81	99.13	43	654	240	94					0	0	0	197	L
		C		7.42Y	123.7	0.00	2.26	37.27	16	264	84	95					0	0	0	87	

----- Feeder No. 2103 (2103) Beginning with Device R1438 -----

R1438	68359	A	2103	7.56Y	126.0	0.00	0.04	204.74	0	1457	521	94	0.00	0.0	0.013	0.000	0	0	0	409
		B		7.56Y	126.0	0.00	0.03	201.53	0	1433	517	94					0	0	0	370
		C		7.56Y	126.0	0.00	0.03	199.75	0	1425	497	94					0	0	0	357

----- Feeder No. 2104 (2104) Beginning with Device R1437 -----

R1437	68357	A	2104	7.56Y	126.0	0.00	0.03	114.92	0	826	267	95	0.00	0.0	0.013	0.000	0	0	0	151
		B		7.56Y	126.0	0.00	0.03	114.58	0	825	263	95					0	0	0	167
		C		7.56Y	126.0	0.00	0.03	124.89	0	899	289	95					0	0	0	164

 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	8944	58	0	0	0	0	354		0.00	9356
KVAR	3236	21	-586	-76	0	0	769			3364

	Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase	-> 116.76 volts on T22260079088	9.24 volts on T22260079088	4.80 volts on T22180006306
B-Phase	-> 116.56 volts on T21163205556	9.44 volts on T21163205556	2.97 volts on T21163205556
C-Phase	-> 110.26 volts on T22260036451	15.74 volts on T22260036451	9.14 volts on T22260036451

Summary

Unbalanced Voltage Drop Report
 Source: BRISTOW

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Units Displayed In Volts

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	-Base Voltage:120.0-			%	kW	%	mi From Src	Length (mi)	-Element-		Cons On	Cons Thru		
							Accum Drop	Thru Amps	% Cap						KW	KVAR			PF	Loss
BRISTOW	BRISTOW	A		7.56Y	126.0	0.00	0.00	282.08	28	2071	510	97	0.00	0.0	0.000	0.000	0	0	0	697
		B		7.56Y	126.0	0.00	0.00	274.45	27	2005	533	97					0	0	0	712
		C		7.56Y	126.0	0.00	0.00	325.18	33	2377	627	97					0	0	0	791

----- Feeder No. 1402 (1402) Beginning with Device R1388 -----

R1388	68191	A	1402	7.56Y	126.0	0.00	0.01	33.49	0	246	60	97	0.00	0.0	0.009	0.000	0	0	0	76
		B		7.56Y	126.0	0.00	0.01	8.29	0	61	14	98					0	0	0	21
		C		7.56Y	126.0	0.00	0.01	64.88	0	475	123	97					0	0	0	125

----- Feeder No. 1404 (1404) Beginning with Device R1396 -----

R1396	68189	A	1404	7.56Y	126.0	0.00	0.02	248.59	0	1825	449	97	0.00	0.0	0.009	0.000	0	0	0	621
		B		7.56Y	126.0	0.00	0.02	266.16	0	1944	518	97					0	0	0	691
		C		7.56Y	126.0	0.00	0.02	260.30	0	1902	504	97					0	0	0	666

 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	6266	42	0	0	0	0	145		0.00	6453
KVAR	2038	13	-675	-106	0	0	399			1669

	Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase	-> 118.58 volts on T61437076070	7.42 volts on T61437076070	4.40 volts on T72438042560
B-Phase	-> 117.16 volts on T61437028956	8.84 volts on T61437028956	2.47 volts on T72438100748
C-Phase	-> 118.09 volts on T61437033556	7.91 volts on T61437033556	3.22 volts on T72438042576

Summary

Unbalanced Voltage Drop Report
Source: KEITH

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																KW	KVAR	On	Thru	
----- Feeder No. 1303 (1303) Beginning with Device R1395 -----																				
R1395	68275	A	1303	7.56Y	126.0	0.00	0.00	344.40	34	2484	781	95	0.00	0.0	0.000	0.000	0	0	0	866
		B		7.56Y	126.0	0.00	0.00	321.65	32	2314	746	95					0	0	0	762
		C		7.56Y	126.0	0.00	0.00	345.94	35	2494	787	95					0	0	0	778
----- Feeder No. 1304 (1304) Beginning with Device R1394 -----																				
R1394	68273	A	1304	7.56Y	126.0	0.00	0.03	81.87	0	593	177	96	0.00	0.0	0.016	0.000	0	0	0	176
		B		7.56Y	126.0	0.00	0.02	74.53	0	537	170	95					0	0	0	160
		C		7.56Y	126.0	0.00	0.03	77.53	0	560	174	95					0	0	0	167
----- Feeder No. 1301 (1301) Beginning with Device R1392 -----																				
R1392	68271	A	1301	7.56Y	126.0	0.00	0.02	115.85	0	833	271	95	0.00	0.0	0.016	0.000	0	0	0	203
		B		7.56Y	126.0	0.00	0.02	117.96	0	845	285	95					0	0	0	236
		C		7.56Y	126.0	0.00	0.03	114.68	0	825	267	95					0	0	0	173
----- Feeder No. 1302 (1302) Beginning with Device R1393 -----																				
R1393	68269	A	1302	7.56Y	126.0	0.00	0.02	81.97	0	588	194	95	0.00	0.0	0.016	0.000	0	0	0	259
		B		7.56Y	126.0	0.00	0.02	75.26	0	540	180	95					0	0	0	213
		C		7.56Y	126.0	0.00	0.02	62.47	0	451	139	96					0	0	0	162

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	7017	89	0	0	0	0	186		0.00	7292
KVAR	2473	31	-527	-15	0	0	354			2315

	Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase	-> 117.86 volts on T11054150126	8.14 volts on T11054150126	2.47 volts on T11074184664
B-Phase	-> 105.72 volts on T12100172189	20.28 volts on T12100172189	19.09 volts on T12100172189

C-Phase -> 119.23 volts on T11045212468

6.77 volts on T11045212468

3.68 volts on T11066024847

Summary

Unbalanced Voltage Drop Report
Source: BROMLEY

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

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

BROMLEY		A	BROMLEY	7.56Y	126.0	0.00	0.00	314.56	31	2287	653	96	0.00	0.0	0.000	0.000	0	0	0	720
		B		7.56Y	126.0	0.00	0.00	242.08	24	1761	498	96					0	0	0	596
		C		7.56Y	126.0	0.00	0.00	257.98	26	1875	538	96					0	0	0	532

----- Feeder No. 601 (0601) Beginning with Device R1372 -----																				
R1372	68267	A	0601	7.56Y	126.0	0.00	0.04	174.57	0	1260	391	96	0.00	0.0	0.017	0.000	0	0	0	348
		B		7.56Y	126.0	0.00	0.02	135.07	0	985	268	96					0	0	0	322
		C		7.56Y	126.0	0.00	0.03	130.20	0	948	263	96					0	0	0	235
C 8595	R1372	A	1/0 ACSR 3	7.56Y	125.9	0.02	0.05	174.57	76	1260	391	96	0.28	0.0	0.022	0.005	0	0	0	348 C
		B		7.56Y	126.0	0.01	0.03	135.07	59	985	268	96					0	0	0	322
		C		7.56Y	126.0	0.01	0.04	130.20	57	948	263	96					0	0	0	235

----- Feeder No. 602 (0602) Beginning with Device R1391 -----																				
R1391	68265	A	0602	7.56Y	126.0	0.00	0.03	87.13	0	640	155	97	0.00	0.0	0.018	0.000	0	0	0	216
		B		7.56Y	126.0	0.00	0.01	45.78	0	331	100	96					0	0	0	123
		C		7.56Y	126.0	0.00	0.03	53.98	0	393	109	96					0	0	0	116

----- Feeder No. 603 (0603) Beginning with Device R1398 -----																				
R1398	68263	A	0603	7.56Y	126.0	0.00	0.03	52.98	0	386	106	96	0.00	0.0	0.019	0.000	0	0	0	156
		B		7.56Y	126.0	0.00	0.02	61.25	0	445	129	96					0	0	0	151
		C		7.56Y	126.0	0.00	0.03	73.83	0	533	166	95					0	0	0	181

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	5706	50	0	0	0	0	167	0.00	5923
KVAR	1545	14	-234	-29	0	0	393		1689

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 104.96 volts on T41273220912	21.04 volts on T41273220912	14.92 volts on T41273220912
B-Phase -> 113.32 volts on T21162131470	12.68 volts on T21162131470	10.57 volts on T21162131470
C-Phase -> 118.92 volts on 71791	7.08 volts on 71791	2.65 volts on T12127114227

Summary

Unbalanced Voltage Drop Report
Source: MUNK

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
MUNK		A	MUNK	7.56Y	126.0	0.00	0.00	452.11	20	3302	884	97	0.00	0.0	0.000	0.000	0	0	0	909
		B		7.56Y	126.0	0.00	0.00	382.43	17	2813	667	97					0	0	0	811
		C		7.56Y	126.0	0.00	0.00	440.55	20	3227	823	97					0	0	0	905
C 23046	MUNK	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	452.11	90	3302	884	97	0.29	0.0	0.002	0.002	0	0	0	909 C
C		B		7.56Y	126.0	0.00	0.00	382.43	76	2813	667	97					0	0	0	811 C
C		C		7.56Y	126.0	0.01	0.01	440.55	88	3227	823	97					0	0	0	905 C
C 23040	23046	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	452.11	90	3301	884	97	0.29	0.0	0.004	0.002	0	0	0	909 C
C		B		7.56Y	126.0	0.00	0.01	382.43	76	2813	667	97					0	0	0	811 C
C		C		7.56Y	126.0	0.01	0.01	440.55	88	3227	823	97					0	0	0	905 C
----- Feeder No. 407 (0407) Beginning with Device R1457 -----																				
R1457	68337	A	0407	7.56Y	126.0	0.00	0.02	80.82	0	580	191	95	0.00	0.0	0.010	0.000	0	0	0	154
		B		7.56Y	126.0	0.00	0.01	37.47	0	273	76	96					0	0	0	79
		C		7.56Y	126.0	0.00	0.02	74.33	0	537	165	96					0	0	0	155
----- Feeder No. 401 (0401) Beginning with Device R1456 -----																				
R1456	68335	A	0401	7.56Y	126.0	0.00	0.02	57.99	0	411	152	94	0.00	0.0	0.010	0.000	0	0	0	115
		B		7.56Y	126.0	0.00	0.01	40.94	0	291	105	94					0	0	0	75
		C		7.56Y	126.0	0.00	0.02	58.15	0	414	147	94					0	0	0	134
----- Feeder No. 402 (0402) Beginning with Device R1455 -----																				
R1455	68333	A	0402	7.56Y	126.0	0.00	0.02	88.09	0	638	192	96	0.00	0.0	0.010	0.000	0	0	0	203
		B		7.56Y	126.0	0.00	0.01	99.94	0	727	207	96					0	0	0	228
		C		7.56Y	126.0	0.00	0.02	102.23	0	736	235	95					0	0	0	234
----- Feeder No. 403 (0403) Beginning with Device R1454 -----																				
R1454	68331	A	0403	7.56Y	126.0	0.00	0.02	83.23	0	604	178	96	0.00	0.0	0.010	0.000	0	0	0	166
		B		7.56Y	126.0	0.00	0.01	54.56	0	400	101	97					0	0	0	129
		C		7.56Y	126.0	0.00	0.02	66.29	0	487	118	97					0	0	0	141
----- Feeder No. 404 (0404) Beginning with Device R1453 -----																				
R1453	68329	A	0404	7.56Y	126.0	0.00	0.01	1.05	0	8	3	94	0.00	0.0	0.010	0.000	0	0	0	2
		B		7.56Y	126.0	0.00	0.01	5.24	0	37	13	95					0	0	0	10
		C		7.56Y	126.0	0.00	0.01	2.97	0	21	7	95					0	0	0	5
----- Feeder No. 406 (0406) Beginning with Device R1458 -----																				
R1458	68327	A	0406	7.56Y	126.0	0.00	0.01	1.45	0	10	4	93	0.00	0.0	0.010	0.000	0	0	0	2
		B		7.56Y	126.0	0.00	0.01	20.08	0	143	50	94					0	0	0	52
		C		7.56Y	126.0	0.00	0.01	5.35	0	38	13	95					0	0	0	10
----- Feeder No. 405 (0405) Beginning with Device R1452 -----																				
R1452	68325	A	0405	7.56Y	126.0	0.00	0.02	140.73	0	1051	164	99	0.00	0.0	0.010	0.000	0	0	0	266
		B		7.56Y	126.0	0.00	0.01	125.49	0	942	115	99					0	0	0	237
		C		7.56Y	126.0	0.00	0.02	132.62	0	993	136	99					0	0	0	225

 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	9046	103	0	0	0	0	192		0.00	9342
KVAR	3011	34	-1057	-67	0	0	455			2375

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 118.70 volts on T22275052010	7.30 volts on T22275052010	3.87 volts on T22275052010
B-Phase -> 119.29 volts on T12234114817	6.71 volts on T12234114817	3.09 volts on T22317035195
C-Phase -> 110.56 volts on T41255005824	15.44 volts on T41255005824	10.35 volts on T22318135885

Summary

Unbalanced Voltage Drop Report
 Source: CARSON

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
 Title: OEC 2012-2013 CWP
 Case: Improved System with Grown Summer Load

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Units Displayed In Volts
 -Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
CARSON		A	CARSON	15.12Y	126.0	0.00	0.00	179.78	18	2662	551	98	0.00	0.0	0.000	0.000	0	0	0	611
		B		15.12Y	126.0	0.00	0.00	188.22	19	2791	556	98					0	0	0	601
		C		15.12Y	126.0	0.00	0.00	203.78	20	3037	520	99					0	0	0	610
----- Feeder No. 1101 (1101) Beginning with Device R1178 -----																				
R1178	2191	A	1101	15.12Y	126.0	0.00	0.01	89.89	0	1242	552	91	0.00	0.0	0.015	0.000	0	0	0	90
		B		15.12Y	126.0	0.00	0.01	88.13	0	1219	539	91					0	0	0	89
		C		15.12Y	126.0	0.00	0.01	87.37	0	1208	535	91					0	0	0	95
----- Feeder No. 1102 (1102) Beginning with Device R1405 -----																				
R1405	2187	A	1102	15.12Y	126.0	0.00	0.00	32.52	0	449	-201	-91	0.00	0.0	0.014	0.000	0	0	0	297
		B		15.12Y	126.0	0.00	0.01	34.39	0	486	-186	-93					0	0	0	235
		C		15.12Y	126.0	0.00	0.01	34.64	0	484	-201	-92					0	0	0	179
----- Feeder No. 1103 (1103) Beginning with Device R1384 -----																				
R1384	68120	A	1103	15.12Y	126.0	0.00	0.01	65.58	0	971	200	98	0.00	0.0	0.016	0.000	0	0	0	225
		B		15.12Y	126.0	0.00	0.01	73.12	0	1087	203	98					0	0	0	277
		C		15.12Y	126.0	0.00	0.01	89.83	0	1345	186	99					0	0	0	336

 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	8194	104	0	0	0	0	192		0.00	8490
KVAR	2403	32	-1120	-61	0	0	374			1628

Lowest Voltage	Highest Accumulated Voltage Drop	Highest Element Voltage Drop
A-Phase -> 117.30 volts on T41232022498	8.70 volts on T41232022498	5.88 volts on T41232022498
B-Phase -> 120.16 volts on T91207127618	5.84 volts on T91207127618	3.15 volts on T91230135529
C-Phase -> 117.86 volts on T91206119713	8.14 volts on T91206119713	3.46 volts on T91190198743

Unbalanced Voltage Drop Report
Source: BANKLICK

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
Title: OEC 2012-2013 CWP
Case: Improved System with Grown Summer Load

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

BANKLICK		A	BANKLICK	7.56Y	126.0	0.00	0.00	489.70	49	3557	1028	96	0.00	0.0	0.000	0.000	0	0	0	934
		B		7.56Y	126.0	0.00	0.00	460.04	46	3351	931	96					0	0	0	887
		C		7.56Y	126.0	0.00	0.00	454.47	45	3306	936	96					0	0	0	912
C 40409	BANKLICK	A	336 ACSR 3	7.56Y	126.0	0.01	0.01	489.70	98	3557	1028	96	0.52	0.0	0.003	0.003	0	0	0	934 C
C		B		7.56Y	126.0	0.01	0.01	460.04	92	3351	931	96					0	0	0	887 C
C		C		7.56Y	126.0	0.01	0.01	454.47	91	3306	936	96					0	0	0	912 C
C 40408	40409	A	336 ACSR 3	7.56Y	126.0	0.01	0.02	489.70	98	3556	1027	96	0.52	0.0	0.006	0.003	0	0	0	934 C
C		B		7.56Y	126.0	0.01	0.02	460.04	92	3351	931	96					0	0	0	887 C
C		C		7.56Y	126.0	0.01	0.02	454.47	91	3306	936	96					0	0	0	912 C

----- Feeder No. 201 (0201) Beginning with Device R1418 -----																				
R1418	68225	A	0201	7.56Y	126.0	0.00	0.03	170.60	0	1206	458	93	0.00	0.0	0.009	0.000	0	0	0	310
		B		7.56Y	126.0	0.00	0.02	149.06	0	1055	396	94					0	0	0	269
		C		7.56Y	126.0	0.00	0.02	130.19	0	928	329	94					0	0	0	267

----- Feeder No. 202 (0202) Beginning with Device R1419 -----																				
R1419	68223	A	0202	7.56Y	126.0	0.00	0.03	155.71	0	1156	221	98	0.00	0.0	0.009	0.000	0	0	0	337
		B		7.56Y	126.0	0.00	0.02	129.50	0	970	131	99					0	0	0	274
		C		7.56Y	126.0	0.00	0.02	168.74	0	1245	276	98					0	0	0	354

----- Feeder No. 203 (0203) Beginning with Device R1420 -----																				
R1420	68221	A	0203	7.56Y	126.0	0.00	0.02	45.12	0	336	60	98	0.00	0.0	0.009	0.000	0	0	0	79
		B		7.56Y	126.0	0.00	0.02	85.79	0	625	173	96					0	0	0	171
		C		7.56Y	126.0	0.00	0.02	71.65	0	524	138	97					0	0	0	143

----- Feeder No. 204 (0204) Beginning with Device R1421 -----																				
R1421	68219	A	0204	7.56Y	126.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.009	0.000	0	0	0	0
		B		7.56Y	126.0	0.00	0.02	0.21	0	1	0	95					0	0	0	2
		C		7.56Y	126.0	0.00	0.02	0.00	0	0	0	100					0	0	0	0

----- Feeder No. 205 (0205) Beginning with Device R1422 -----																				
R1422	68217	A	0205	7.56Y	126.0	0.00	0.03	119.86	0	859	289	95	0.00	0.0	0.009	0.000	0	0	0	207
		B		7.56Y	126.0	0.00	0.02	97.37	0	699	229	95					0	0	0	170
		C		7.56Y	126.0	0.00	0.02	84.50	0	609	193	95					0	0	0	147

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 9881 92 0 0 0 0 240 0.00 10213
 KVAR 3256 30 -917 -92 0 0 618 2896

Lowest Voltage Highest Accumulated Voltage Drop Highest Element Voltage Drop
 A-Phase -> 115.04 volts on T71411124206 10.96 volts on T71411124206 9.78 volts on T71411124206
 B-Phase -> 118.79 volts on T71350026319 7.21 volts on T71350026319 3.80 volts on T71350026319
 C-Phase -> 117.90 volts on T71395047598 8.10 volts on T71395047598 3.92 volts on T71395047598

Summary

Unbalanced Voltage Drop Report
 Source: RICHARDSON II

Database: C:\MILSOFT7_3\DATA\OEC 2011\CWP 2011\CWP IMPROVEMENTS.WM\
 Title: OEC 2012-2013 CWP
 Case: Improved System with Grown Summer Load

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 Units Displayed In Volts
 -Base Voltage:120.0-
 -----Element-----

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
RICHARDSON II		A	RICHARDSON	7.56Y	126.0	0.00	0.00	187.77	19	1335	483	94	0.00	0.0	0.000	0.000	0	0	0	332
		B		7.56Y	126.0	0.00	0.00	191.29	19	1361	490	94					0	0	0	348
		C		7.56Y	126.0	0.00	0.00	224.38	22	1591	587	94					0	0	0	369

----- Feeder No. 5505 (5505) Beginning with Device R1406 -----

R1406	68233	A	5505	7.56Y	126.0	0.00	0.01	118.16	0	839	306	94	0.00	0.0	0.010	0.000	0	0	0	194
		B		7.56Y	126.0	0.00	0.01	121.68	0	865	313	94					0	0	0	220
		C		7.56Y	126.0	0.00	0.01	122.25	0	868	317	94					0	0	0	177

----- Feeder No. 5504 (5504) Beginning with Device R1381 -----

R1381	68231	A	5504	7.56Y	126.0	0.00	0.01	69.61	0	496	177	94	0.00	0.0	0.011	0.000	0	0	0	138
		B		7.56Y	126.0	0.00	0.01	69.61	0	496	177	94					0	0	0	128
		C		7.56Y	126.0	0.00	0.01	102.14	0	724	269	94					0	0	0	192

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	4162	90	0	0	0	0	35	0.00	4287
KVAR	1497	32	0	-58	0	0	89		1561

Lowest Voltage Highest Accumulated Voltage Drop Highest Element Voltage Drop
 A-Phase -> 122.19 volts on T72439058898 3.81 volts on T72439058898 3.67 volts on T72439058898
 B-Phase -> 117.05 volts on T71440000369 8.95 volts on T71440000369 8.64 volts on T71440000369
 C-Phase -> 121.95 volts on T71454148983 4.05 volts on T71454148983 1.74 volts on T71454214574

 Substation Summary:

Substation	KW	KW Losses	KVAR	KVAR Losses	KVA	% Capacity
RICHWOOD	8065.00	209.00	3283.00	330.00	8588.15	0.00
DURO II	6280.00	78.00	3139.00	211.00	6691.86	33.06
SMITH	8388.00	150.00	4961.00	384.00	9127.14	41.13
SMITH II	8722.00	107.00	4881.00	362.00	9799.05	44.21
BAVARIAN	4083.00	100.00	1633.00	216.00	4171.58	22.08
PENN	9725.00	356.00	3463.00	762.00	9925.51	46.84

NOEL	9356.00	354.00	4026.00	769.00	9941.82	46.31
DOWNING II	3287.00	67.00	1503.00	147.00	3390.02	15.10
DOWNING	9446.00	204.00	4690.00	530.00	10477.21	47.51
SMOOT II	9615.00	127.00	3797.00	348.00	10237.39	48.84
SMOOT	9257.00	128.00	3240.00	310.00	9748.38	45.32
MUNK	9341.00	192.00	3500.00	455.00	9639.08	20.35
BOONE	13231.00	343.00	5414.00	695.00	13956.09	66.12
HEBRON	16333.00	318.00	7096.00	825.00	17646.46	81.06
BURLINGTON	8842.00	101.00	3844.00	261.00	9319.12	45.24
BULLITTSVILLE	9895.00	228.00	5548.00	566.00	10828.21	50.64
BIG BONE	3886.00	65.00	1536.00	149.00	4133.27	22.67
STERLING	7902.00	94.00	5776.00	242.00	9374.35	0.00
KEITH	7292.00	186.00	2858.00	354.00	7650.68	34.59
KEITH II	1549.00	17.00	750.00	44.00	1720.12	0.00
BROMLEY	5923.00	167.00	1952.00	393.00	6158.58	31.46
CARSON	8490.00	192.00	2809.00	374.00	8644.38	20.38
GALLATIN	10747.00	291.00	5087.00	633.00	11377.13	27.40
GRIFFIN	7980.00	209.00	3552.00	387.00	8664.34	39.99
GRANTSLICK	7199.00	141.00	3196.00	353.00	7661.45	38.85
GRANTSLICK II	13305.00	271.00	3699.00	575.00	13452.98	34.71
RICHARDSON	7665.00	111.00	2673.00	334.00	8025.73	36.40
RICHARDSON II	4287.00	35.00	1618.00	89.00	4562.05	22.44
BANKLICK	10213.00	240.00	3904.00	618.00	10615.76	48.97
TURKEYFOOT	13481.00	140.00	5274.00	420.00	14190.65	66.61
WILLIAMSTOWN	12041.00	426.00	4993.00	856.00	12563.76	56.70
BRISTOW II	9079.00	174.00	4540.00	382.00	9826.35	45.92
BRISTOW	6453.00	145.00	2450.00	399.00	6665.52	32.52
DURO	862.00	4.00	-621.00	18.00	1064.55	4.69
Messier	17490.00	154.00	8189.00	770.00	19310.46	0.00
Bellevue	8636.00	130.00	4683.00	243.00	9223.13	0.00

Total:	308346.00	6254.00	132936.00	14804.00	328372.31	
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