

Balanced Voltage Drop Report
Source: 8100

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.WM\

Title:
Case:

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		Units Displayed In Volts															-----Element-----			
		-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
20	8101	ABC	090-336 AC	7.43Y	123.8	2.23	2.23	138.51	26	2051	1318	91	28.93	1.0	1.953	1.953	254	118	75	615
855	20	ABC	098-#3/0 A	7.42Y	123.7	0.06	2.29	108.61	36	2158	1095	89	0.82	0.0	1.985	0.032	16	1	2	282
777	855	ABC	Capacitor	7.42Y	123.7	0.00	2.29	107.95	0	2141	1093	89	0.00	0.0	1.985	0.000	0	0	0	280
4014	777	ABC	098-#3/0 A	7.40Y	123.3	0.41	2.70	114.36	38	2141	1379	84	5.87	0.3	2.193	0.208	26	2	4	280
C OCR-19	4014	ABC	012-100-L	7.40Y	123.3	0.00	2.70	113.35	113	2109	1371	84	0.00	0.0	2.193	0.000	0	0	0	276
19	OCR-19	ABC	090-336 AC	7.36Y	122.7	0.62	3.32	113.35	21	2109	1371	84	5.72	0.3	2.804	0.610	293	234	2	276
18	19	ABC	098-#3/0 A	7.35Y	122.4	0.25	3.57	90.93	30	1671	1114	83	1.99	0.1	3.072	0.269	1242	1082	12	200
OCR-4108	18	ABC	011- 70-L	7.35Y	122.4	0.00	3.57	19.42	28	427	30	100	0.00	0.0	3.072	0.000	0	0	0	188
4108	OCR-4108	ABC	098-#3/0 A	7.33Y	122.2	0.21	3.78	19.42	6	427	30	100	0.67	0.2	3.915	0.842	18	1	6	188
OCR-542	4108	ABC	011- 70-L	7.33Y	122.2	0.00	3.78	18.61	27	409	28	100	0.00	0.0	3.915	0.000	0	0	0	182
542	OCR-542	ABC	098-#3/0 A	7.31Y	121.9	0.31	4.09	18.61	6	409	28	100	0.89	0.2	5.379	1.464	98	6	47	182
OCR-14	542	ABC	010- 50-L	7.31Y	121.9	0.00	4.09	14.16	28	310	21	100	0.00	0.0	5.379	0.000	0	0	0	135
14	OCR-14	ABC	098-#3/0 A	7.30Y	121.7	0.26	4.35	14.16	5	310	21	100	0.58	0.2	6.916	1.537	50	3	18	135
4025	14	ABC	106-#2 ACS	7.29Y	121.5	0.14	4.48	11.89	7	260	17	100	0.28	0.1	7.398	0.482	4	0	2	117
OCR-13	4025	C	005- 25-H	7.29Y	121.5	0.00	4.48	13.80	55	100	6	100	0.00	0.0	7.398	0.000	0	0	0	53
13	OCR-13	C	117-#6 A-C	7.25Y	120.9	0.60	5.09	13.80	10	100	6	100	0.32	0.3	9.465	2.067	100	6	53	53
12	4025	ABC	098-#3/0 A	7.29Y	121.4	0.08	4.57	7.09	2	155	10	100	0.09	0.1	8.380	0.981	29	2	7	62
OCR-11	12	A	005- 25-H	7.29Y	121.4	0.00	4.57	7.35	29	53	3	100	0.00	0.0	8.380	0.000	0	0	0	20
11	OCR-11	A	118-#8 A-C	7.25Y	120.9	0.53	5.10	7.35	7	53	3	100	0.15	0.3	10.645	2.265	53	3	20	20
6	12	ABC	098-#3/0 A	7.28Y	121.4	0.02	4.59	3.31	1	72	5	100	0.01	0.0	9.488	1.108	72	5	35	35
OCR-17	19	A	007- 50-H	7.36Y	122.7	0.00	3.32	19.14	38	141	10	100	0.00	0.0	2.804	0.000	0	0	0	74
17	OCR-17	A	106-#2 ACS	7.32Y	121.9	0.74	4.06	19.14	11	141	10	100	0.74	0.5	4.330	1.527	34	2	21	74
16	17	A	106-#2 ACS	7.28Y	121.3	0.66	4.72	14.47	8	106	7	100	0.36	0.3	7.498	3.167	105	7	53	53
FUSE-767	20	A	083-30N FU	7.43Y	123.8	0.00	2.23	11.83	20	88	6	100	0.00	0.0	1.953	0.000	0	0	0	45
767	FUSE-767	A	117-#6 A-C	7.41Y	123.6	0.22	2.45	11.83	8	88	6	100	0.10	0.1	2.817	0.864	88	5	45	45
766	20	ABC	106-#2 ACS	7.42Y	123.7	0.09	2.32	14.58	8	323	33	99	0.14	0.0	2.429	0.476	323	33	213	213

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen#Motors	Loops#Metas	Losses	No Load Losses	Total		
KW	6157	0	0	0	0	0	142	0.00	6300	Lowest Voltage = 120.67 on Element 41	
KVAR	3097	0	-1188	0	0	0	184		2094	Max Accm VoltD = 5.33 on Element 41	
										Max Elem VoltD = 3.42 on Element 492	

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GARRETT SUMMER 2008

Detail

Balanced Voltage Drop Report Source: 8120

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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
8120			ABC SRC-8120-D	7.56Y	126.0	0.00	0.00	435.14	0	8978	4099	91	0.00	0.0	0.000	0.000	0	0	0	2007
----- Feeder NO. 5		Beginning with Node Element 8125																		
8125	8120		ABC Node	7.56Y	126.0	0.00	0.00	2.92	0	60	27	91	0.00	0.0	0.000	0.000	0	0	0	2
574	8125		ABC 074-795 AC	7.56Y	126.0	0.01	0.01	2.92	0	60	27	91	0.00	0.0	1.595	1.595	60	27	2	2
----- Feeder NO. 6		Beginning with Node Element 8126																		
8126	8120		ABC Node	7.56Y	126.0	0.00	0.00	118.48	0	2444	1116	91	0.00	0.0	0.000	0.000	0	0	0	554
447	8126		ABC 098-#3/0 A	7.41Y	123.4	2.57	2.57	118.48	39	2444	1116	91	38.50	1.6	1.381	1.381	257	105	55	554
446	447		ABC 106-#2 ACS	7.39Y	123.1	0.31	2.88	21.63	12	434	206	90	0.75	0.2	2.299	0.917	367	178	65	80
FUSE-856	446	B	085-50N FU	7.39Y	123.1	0.00	2.88	9.73	10	67	27	93	0.00	0.0	2.299	0.000	0	0	0	15
856	FUSE-856	B	117-#6 A-C	7.38Y	123.1	0.06	2.94	9.73	7	67	27	93	0.02	0.0	2.559	0.261	67	27	15	15
OCR-445	447	B	061-50-4H	7.41Y	123.4	0.00	2.57	25.31	51	173	71	93	0.00	0.0	1.381	0.000	0	0	0	48
445	OCR-445	B	117-#6 A-C	7.30Y	121.6	1.79	4.36	25.31	18	173	71	93	1.90	1.1	3.515	2.134	101	41	33	48
OCR-857	445	B	051-140-63	7.30Y	121.6	0.00	4.36	10.45	7	71	29	93	0.00	0.0	3.515	0.000	0	0	0	15
857	OCR-857	B	118-#8 A-C	7.27Y	121.2	0.40	4.76	10.45	10	71	29	93	0.21	0.3	4.157	0.642	17	7	3	15
858	857	B	106-#2 ACS	7.27Y	121.1	0.11	4.87	7.95	4	54	22	93	0.03	0.1	4.959	0.802	53	22	12	12
OCR-441	447	A	007- 50-H	7.41Y	123.4	0.00	2.57	26.82	54	184	75	93	0.00	0.0	1.381	0.000	0	0	0	64
441	OCR-441	A	117-#6 A-C	7.34Y	122.3	1.17	3.74	26.82	19	184	75	93	1.09	0.6	3.243	1.862	183	75	64	64
572	447	ABC	113-2F 7/1	7.30Y	121.7	1.73	4.30	67.11	39	1358	615	91	15.37	1.1	2.798	1.417	140	57	28	307
436	572	ABC	113-2F 7/1	7.25Y	120.8	0.87	5.17	41.42	24	821	386	90	4.79	0.6	3.916	1.118	51	21	9	186
FUSE-893	436	C	082-25N FU	7.25Y	120.8	0.00	5.17	21.21	42	142	58	93	0.00	0.0	3.916	0.000	0	0	0	33
893	FUSE-893	C	110-#4 ACS	7.24Y	120.7	0.15	5.32	21.21	15	142	58	93	0.08	0.1	4.696	0.788	142	58	33	33
OCR-578	436	A	007- 50-H	7.25Y	120.8	0.00	5.17	20.76	42	139	57	93	0.00	0.0	3.916	0.000	0	0	0	43
578	OCR-578	A	118-#8 A-C	7.15Y	119.2	1.66	6.83	20.76	21	139	57	93	1.27	0.9	6.293	2.377	138	56	43	43
575	436	ABC	113-2F 7/1	7.22Y	120.3	0.56	5.73	24.92	15	483	245	89	1.76	0.4	5.175	1.259	91	37	23	101
433	575	ABC	113-2F 7/1	7.21Y	120.2	0.05	5.78	4.24	2	85	35	92	0.02	0.0	6.377	1.201	85	35	19	19
950	575	ABC	098-#3/0 A	7.21Y	120.2	0.09	5.81	9.90	3	178	119	83	0.08	0.0	5.907	0.731	101	88	6	27
OCR-435	950	B	007- 50-H	7.21Y	120.2	0.00	5.81	11.54	23	77	32	92	0.00	0.0	5.907	0.000	0	0	0	21
435	OCR-435	B	106-#2 ACS	7.19Y	119.9	0.32	6.13	11.54	6	77	32	92	0.17	0.2	6.766	0.859	10	4	5	21
895	435	B	106-#2 ACS	7.18Y	119.7	0.21	6.34	10.06	6	67	27	93	0.07	0.1	8.014	1.248	67	27	16	16
FUSE-894	575	A	082-25N FU	7.22Y	120.3	0.00	5.73	19.14	38	128	52	93	0.00	0.0	5.175	0.000	0	0	0	32
894	FUSE-894	A	110-#4 ACS	7.21Y	120.2	0.11	5.84	19.14	14	128	52	93	0.05	0.0	4.823	0.648	128	52	32	32
892	572	A	110-#4 ACS	7.29Y	121.5	0.23	4.54	20.88	15	141	58	92	0.11	0.1	4.010	1.211	141	58	35	35
OCR-890	572	C	007- 50-H	7.30Y	121.7	0.00	4.30	35.66	71	241	99	92	0.00	0.0	2.798	0.000	0	0	0	58
890	OCR-890	C	106-#2 ACS	7.25Y	120.8	0.93	5.24	35.66	20	241	99	92	1.36	0.6	3.801	1.002	111	46	31	58
515	890	C	106-#2 ACS	7.22Y	120.3	0.42	5.66	19.08	11	128	52	93	0.28	0.2	4.873	1.072	101	41	23	27
FUSE-444	515	C	082-25N FU	7.22Y	120.3	0.00	5.66	3.94	8	26	11	92	0.00	0.0	4.873	0.000	0	0	0	4
444	FUSE-444	C	118-#8 A-C	7.21Y	120.2	0.11	5.77	3.94	4	26	11	92	0.02	0.1	5.726	0.853	26	11	4	4
P 891	515	C	118-#8 A-C	7.22Y	120.3	0.00	5.66	0.00	0	0	0	0	0.00	0.0	5.498	0.625	0	0	0	0 P
----- Feeder NO. 4		Beginning with Node Element 8124																		
8124	8120		ABC Node	7.56Y	126.0	0.00	0.00	43.73	0	903	411	91	0.00	0.0	0.000	0.000	0	0	0	199
471	8124		ABC 098-#3/0 A	7.50Y	125.0	1.04	1.04	43.73	15	903	411	91	5.60	0.6	1.592	1.592	159	91	39	199
470	471		ABC 098-#3/0 A	7.46Y	124.3	0.63	1.67	35.64	12	738	313	92	2.78	0.4	2.777	1.185	136	57	23	160
1905	470		ABC 098-#3/0 A	7.45Y	124.2	0.11	1.78	13.77	5	284	120	92	0.16	0.1	3.391	0.614	132	56	28	60
OCR-1906	1905	C	049-100-63	7.45Y	124.2	0.00	1.78	22.06	22	152	64	92	0.00	0.0	3.391	0.000	0	0	0	32
1906	OCR-1906	C	117-#6 A-C	7.44Y	124.0	0.20	1.98	22.06	16	152	64	92	0.16	0.1	3.784	0.393	151	64	32	32
OCR-898	470	B	011- 70-L	7.46Y	124.3	0.00	1.67	40.28	58	277	117	92	0.00	0.0	2.777	0.000	0	0	0	68
898	OCR-898	B	098-#3/0 A	7.43Y	123.8	0.49	2.16	40.28	13	277	117	92	0.55	0.2	3.877	1.099	276	116	68	68
FUSE-867	470	C	082-25N FU	7.46Y	124.3	0.00	1.67	5.59	11	38	16	92	0.00	0.0	2.777	0.000	0	0	0	9
867	FUSE-867	C	118-#8 A-C	7.45Y	124.2	0.11	1.78	5.59	6	38	16	92	0.02	0.1	3.368	0.590	38	16	9	9
----- Feeder NO. 3		Beginning with Node Element 8123																		
8123	8120		ABC Node	7.56Y	126.0	0.00	0.00	166.91	0	3442	1575	91	0.00	0.0	0.000	0.000	0	0	0	713
C 480	8123		ABC 098-#3/0 A	7.30Y	121.7	4.30	4.30	166.91	56	3442	1575	91	92.04	2.7	1.610	1.610	222	96	62	713 C
OCR-1872	480	B	050-140-11	7.30Y	121.7	0.00	4.30	13.89	10	93	40	92	0.00	0.0	1.610	0.000	0	0	0	27
1872	OCR-1872	B	117-#6 A-C	7.29Y	121.4	0.27	4.57	13.89	10	93	40	92	0.13	0.1	2.444	0.834	93	40	27	27
873	480	ABC	098-#3/0 A	7.27Y	121.2	0.50	4.80	138.82	46	2783	1227	92	9.10	0.3	1.830	0.220	34	15	6	558
479	873	ABC	098-#3/0 A	7.26Y	121.0	0.20	5.00	18.70	6	374	162	92	0.38	0.1	2.896	1.067	281	121	62	84
OCR-875	479	C	007- 50-H	7.26Y	121.0	0.00	5.00	13.96	28	93	40	92	0.00	0.0	2.896	0.000	0	0	0	22
875	OCR-875	C	106-#2 ACS	7.24Y	120.7	0.34	5.34	13.96	8	93	40	92	0.15	0.2	4.302	1.405	93	40	22	22
4037	873	ABC	098-#3/0 A	7.26Y	121.0	0.19	4.99	102.51	34	2046	902	92	2.52	0.1	1.942	0.113	46	20	5	403
4038	4037	ABC	Regulator	7.56Y	126.0	-4.99	0.00	100.20	46	1998	879	92	0.00	0.0	1.942	0.000	0	0	0	398
C OCR-876	4038	ABC	012-100-L	7.56Y	126.0	0.00	0.00	96.24	96	1998	879	92	0.00	0.0						

Balanced Voltage Drop Report
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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	Length (mi)	Element			Cons On	Cons Thru
FUSE-877	876	C	085-50N FU	7.47Y	124.6	0.00	1.44	13.12	13	90	39	92	0.00	0.0	2.884	0.000	0	0	0	18	
877	FUSE-877	C	106-#2 ACS	7.46Y	124.3	0.22	1.66	13.12	7	90	39	92	0.09	0.1	3.873	0.989	90	39	18	18	
FUSE-874	873	ABC	082-25M FU	7.27Y	121.2	0.00	4.80	15.92	32	319	138	92	0.00	0.0	1.830	0.000	0	0	0	65	
874	FUSE-874	ABC	098-#3/0 A	7.26Y	120.9	0.26	5.06	15.92	5	319	138	92	0.37	0.1	3.845	2.016	318	137	65	65	
OCR-872	480	A	007-50-H	7.30Y	121.7	0.00	4.30	20.08	40	135	58	92	0.00	0.0	1.610	0.000	0	0	0	33	
872	OCR-872	A	106-#2 ACS	7.28Y	121.3	0.40	4.70	20.08	11	135	58	92	0.26	0.2	2.777	1.167	134	58	33	33	
OCR-871	480	C	061-50-4H	7.30Y	121.7	0.00	4.30	17.51	35	117	51	92	0.00	0.0	1.610	0.000	0	0	0	33	
871	OCR-871	C	106-#2 ACS	7.28Y	121.3	0.37	4.67	17.51	10	117	51	92	0.21	0.2	2.853	1.244	117	51	33	33	
----- Feeder NO. 2 Beginning with Node Element 8122																					
8122	8120	ABC	Node	7.56Y	126.0	0.00	0.00	29.00	0	599	271	91	0.00	0.0	0.000	0.000	0	0	0	153	
FUSE-573	8122	ABC	082-25M FU	7.56Y	126.0	0.00	0.00	29.00	58	599	271	91	0.00	0.0	0.000	0.000	0	0	0	153	
573	FUSE-573	ABC	098-#3/0 A	7.49Y	124.8	1.18	1.18	29.00	10	599	271	91	3.32	0.6	4.016	4.016	463	208	125	153	
FUSE-860	573	B	082-25M FU	7.49Y	124.8	0.00	1.18	19.39	39	132	60	91	0.00	0.0	4.016	0.000	0	0	0	28	
860	FUSE-860	B	117-#6 A-C	7.46Y	124.4	0.43	1.61	19.39	14	132	60	91	0.29	0.2	4.949	0.933	132	59	28	28	
----- Feeder NO. 1 Beginning with Node Element 8121																					
8121	8120	ABC	Node	7.56Y	126.0	0.00	0.00	74.10	0	1529	697	91	0.00	0.0	0.000	0.000	0	0	0	386	
432	8121	ABC	098-#3/0 A	7.50Y	125.1	0.94	0.94	74.10	25	1529	697	91	8.80	0.6	0.815	0.815	176	79	54	386	
859	432	ABC	098-#3/0 A	7.41Y	123.6	1.49	2.43	65.57	22	1345	608	91	12.36	0.9	2.259	1.444	147	44	60	332	
OCR-431	859	ABC	012-100-L	7.41Y	123.6	0.00	2.43	17.57	18	374	112	96	0.00	0.0	2.259	0.000	0	0	0	79	
431	OCR-431	ABC	098-#3/0 A	7.40Y	123.3	0.29	2.73	17.57	6	374	112	96	0.65	0.2	3.548	1.289	119	35	27	79	
863	431	ABC	106-#2 ACS	7.40Y	123.3	0.01	2.73	11.97	7	254	76	96	0.01	0.0	3.565	0.017	0	0	0	52	
OCR-1863	863	ABC	050-140-11	7.40Y	123.3	0.00	2.73	11.97	9	254	76	96	0.00	0.0	3.565	0.000	0	0	0	52	
1863	OCR-1863	ABC	106-#2 ACS	7.39Y	123.1	0.13	2.86	11.97	7	254	76	96	0.22	0.1	4.020	0.455	68	20	9	52	
4811	1863	C	106-#2 ACS	7.38Y	123.0	0.15	3.00	13.89	8	98	29	96	0.07	0.1	4.657	0.637	98	29	23	23	
4810	1863	A	106-#2 ACS	7.38Y	123.0	0.14	3.00	12.44	7	88	26	96	0.06	0.1	4.689	0.669	88	26	20	20	
430	859	ABC	116-4-ACWC	7.30Y	121.6	1.96	4.40	41.48	23	811	439	88	9.45	1.2	5.069	2.810	576	366	107	193	
OCR-579	430	ABC	011-70-L	7.30Y	121.6	0.00	4.40	5.12	7	107	32	96	0.00	0.0	5.069	0.000	0	0	0	27	
579	OCR-579	ABC	098-#3/0 A	7.29Y	121.6	0.02	4.42	5.12	2	107	32	96	0.01	0.0	5.577	0.508	107	32	27	27	
443	430	B	106-#2 ACS	7.26Y	120.9	0.66	5.06	17.02	9	119	36	96	0.38	0.3	7.445	2.376	119	35	59	59	

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total	
KW	8737	0	0	0	0	0	241	0.00	8978	Lowest Voltage = 119.17 on Element 578
KVAR	3839	0	0	0	0	0	260		4099	Max Accm VoltD = 6.83 on Element 578
										Max Elem VoltD = 4.30 on Element 480

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HARDINSBURG 1 SUMMER 2008

Detail

Balanced Voltage Drop Report
Source: 8600

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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
8600			ABC SRC-8600-D		7.56Y 126.0	0.00	0.00	352.51	0	7592	2505	95	0.00	0.0	0.000	0.000	0	0	0 1568	
----- Feeder NO. 8 Beginning with Node Element 8608																				
8608	8600		ABC Node		7.56Y 126.0	0.00	0.00	122.51	0	2495	1223	90	0.00	0.0	0.000	0.000	0	0	0 469	
4111	8608		ABC 098-#3/0 A		7.56Y 126.0	0.03	0.03	122.51	41	2495	1223	90	0.41	0.0	0.013	0.013	0	0	0 469	
506	4111		ABC 090-336 AC		7.51Y 125.1	0.85	0.87	122.51	23	2494	1223	90	9.19	0.4	0.871	0.859	434	231	100 469	
P 4119	506		ABC 098-#3/0 A		7.51Y 125.1	0.00	0.87	0.00	0	0	0	0	0.00	0.0	0.883	0.011	0	0	0 0 P	
4010	506		A 116-4-ACWC		7.50Y 125.0	0.10	0.97	17.16	10	128	15	99	0.07	0.1	1.151	0.280	79	9	28 45	
4011	4010		A 118-#8 A-C		7.50Y 125.0	0.03	1.00	6.55	7	49	6	99	0.01	0.0	1.295	0.144	49	6	17 17	
888	506		ABC 098-#3/0 A		7.51Y 125.1	0.00	0.87	0.52	0	12	1	100	0.00	0.0	0.975	0.103	12	1	8 8	
FUSE-606	506		ABC 083-30N FU		7.51Y 125.1	0.00	0.87	35.73	60	750	292	93	0.00	0.0	0.871	0.000	0	0	0 196	
606	FUSE-606		ABC 098-#3/0 A		7.49Y 124.9	0.25	1.13	35.73	12	750	292	93	0.87	0.1	1.659	0.788	634	278	162 196	
OCR-765	606		B 010-50-L		7.49Y 124.9	0.00	1.13	15.43	31	115	13	99	0.00	0.0	1.659	0.000	0	0	0 34	
765	OCR-765		B 118-#8 A-C		7.41Y 123.4	1.44	2.57	15.43	15	115	13	99	0.85	0.7	4.546	2.887	114	13	34 34	
605	506		ABC 090-336 AC		7.49Y 124.9	0.24	1.12	59.36	11	1162	662	87	1.05	0.1	1.488	0.617	619	400	63 120	
FUSE-830	605		ABC 083-30N FU		7.49Y 124.9	0.00	1.12	11.96	20	242	116	90	0.00	0.0	1.488	0.000	0	0	0 2	
830	FUSE-830		ABC 110-#4 ACS		7.49Y 124.9	0.00	1.12	11.96	9	242	116	90	0.00	0.0	1.537	0.049	242	116	2 2	
FUSE-725	605		ABC 083-30N FU		7.49Y 124.9	0.00	1.12	14.77	25	300	143	90	0.00	0.0	1.488	0.000	0	0	0 55	
725	FUSE-725		ABC 090-336 AC		7.49Y 124.8	0.07	1.18	14.77	3	300	143	90	0.06	0.0	2.490	1.002	300	143	55 55	
----- Feeder NO. 7 Beginning with Node Element 8607																				
8607	8600		ABC Node		7.56Y 126.0	0.00	0.00	9.64	0	201	85	92	0.00	0.0	0.000	0.000	0	0	0 49	
785	8607		ABC 098-#3/0 A		7.56Y 126.0	0.02	0.02	9.64	3	201	85	92	0.03	0.0	0.137	0.137	0	0	0 49	
489	785		ABC 090-336 AC		7.56Y 126.0	0.03	0.05	9.64	2	201	85	92	0.02	0.0	0.777	0.640	201	85	49 49	
----- Feeder NO. 6 Beginning with Node Element 8606																				
8606	8600		ABC Node		7.56Y 126.0	0.00	0.00	27.08	0	590	172	96	0.00	0.0	0.000	0.000	0	0	0 124	
202	8606		ABC 098-#3/0 A		7.55Y 125.8	0.17	0.17	27.08	9	590	172	96	0.43	0.1	0.803	0.803	589	171	124 124	
----- Feeder NO. 5 Beginning with Node Element 8605																				
P 8605	8600		ABC Node		7.56Y 126.0	0.00	0.00	0.00	0	0	0	0	0.00	0.0	0.000	0.000	0	0	0 0 P	
P 484	8605		ABC 098-#3/0 A		7.56Y 126.0	0.00	0.00	0.00	0	0	0	0	0.00	0.0	0.803	0.803	0	0	0 0 P	
----- Feeder NO. 4 Beginning with Node Element 8604																				
8604	8600		ABC Node		7.56Y 126.0	0.00	0.00	64.55	0	1446	229	99	0.00	0.0	0.000	0.000	0	0	0 366	
714	8604		ABC 098-#3/0 A		7.55Y 125.8	0.25	0.25	64.55	22	1446	229	99	2.43	0.2	0.289	0.289	106	59	4 366	
C OCR-164	714		ABC 003-10-H O		7.55Y 125.8	0.00	0.25	52.17	522	1171	149	99	0.00	0.0	0.289	0.000	0	0	0 314 C	
164	OCR-164		ABC 116-4-ACWC		7.50Y 125.0	0.74	0.99	52.17	29	1171	149	99	6.55	0.6	0.866	0.578	7	1	1 314	
P 163	164		ABC 098-#3/0 A		7.50Y 125.0	0.00	0.99	0.00	0	0	0	0	0.00	0.0	1.346	0.480	0	0	0 0 P	
P 4116	163		ABC 098-#3/0 A		7.50Y 125.0	0.00	0.99	0.00	0	0	0	0	0.00	0.0	1.385	0.039	0	0	0 0 P	
721	164		C 117-#6 A-C		7.49Y 124.8	0.20	1.19	15.29	11	114	13	99	0.16	0.1	1.194	0.327	19	2	3 32	
OCR-159	721		C 010-50-L		7.49Y 124.8	0.00	1.19	12.80	26	95	11	99	0.00	0.0	1.194	0.000	0	0	0 29	
159	OCR-159		C 110-#4 ACS		7.48Y 124.7	0.08	1.27	12.80	9	95	11	99	0.03	0.0	2.110	0.917	95	11	29 29	
OCR-179	164		ABC 038-70-E		7.50Y 125.0	0.00	0.99	46.77	67	1044	132	99	0.00	0.0	0.866	0.000	0	0	0 281	
179	OCR-179		ABC 098-#3/0 A		7.44Y 123.9	1.09	2.08	46.77	16	1044	132	99	7.34	0.7	2.854	1.988	294	33	77 281	
OCR-178	179		B 060-35-AH		7.44Y 123.9	0.00	2.08	6.15	18	45	5	99	0.00	0.0	2.854	0.000	0	0	0 16	
178	OCR-178		B 118-#8 A-C		7.40Y 123.4	0.51	2.59	6.15	6	45	5	99	0.12	0.3	5.411	2.557	45	5	16 16	
995	179		ABC 098-#3/0 A		7.43Y 123.8	0.09	2.17	28.64	10	634	78	99	0.42	0.1	3.089	0.235	0	0	0 168	
OCR-177	995		ABC 011-70-L		7.43Y 123.8	0.00	2.17	28.64	41	634	77	99	0.00	0.0	3.089	0.000	0	0	0 168	
177	OCR-177		ABC 098-#3/0 A		7.38Y 123.0	0.78	2.95	28.64	10	634	77	99	3.31	0.5	5.369	2.280	147	17	35 168	
OCR-994	177		A 006-35-H		7.38Y 123.0	0.00	2.95	20.45	58	150	18	99	0.00	0.0	5.369	0.000	0	0	0 37	
994	OCR-994		A 118-#8 A-C		7.32Y 122.1	0.98	3.94	20.45	20	150	18	99	1.07	0.7	6.215	0.846	36	4	5 37	
992	994		A 118-#8 A-C		7.29Y 121.5	0.59	4.53	15.51	16	113	13	99	0.50	0.4	6.854	0.639	19	2	3 32	
FUSE-187	992		A 082-25N FU		7.29Y 121.5	0.00	4.53	12.91	26	93	11	99	0.00	0.0	6.854	0.000	0	0	0 29	
187	FUSE-187		A 118-#8 A-C		7.23Y 120.5	0.93	5.46	12.91	13	93	11	99	0.46	0.5	9.086	2.232	93	11	29 29	
993	177		ABC 098-#3/0 A		7.38Y 123.0	0.06	3.02	15.17	5	334	39	99	0.15	0.0	5.696	0.328	43	5	4 96	
OCR-176	993		C 006-35-H		7.38Y 123.0	0.00	3.02	10.32	29	76	9	99	0.00	0.0	5.696	0.000	0	0	0 31	
176	OCR-176		C 110-#4 ACS		7.37Y 122.8	0.16	3.18	10.32	7	76	9	99	0.06	0.1	8.113	2.416	76	9	31 31	
OCR-175	993		B 047-70-63		7.38Y 123.0	0.00	3.02	29.29	42	215	25	99	0.00	0.0	5.696	0.000	0	0	0 61	
175	OCR-175		B 106-#2 ACS		7.30Y 121.7	1.27	4.29	29.29	16	215	25	99	1.59	0.7	7.894	2.198	144	16	41 61	
OCR-174	175		B 047-70-63		7.30Y 121.7	0.00	4.29	4.45	6	32	4	99	0.00	0.0	7.894	0.000	0	0	0 13	
174	OCR-174		B 106-#2 ACS		7.30Y 121.6	0.07	4.37	4.45	2	32	4	99	0.01	0.0	9.019	1.125	32	4	13 13	
173	175		B 118-#8 A-C		7.29Y 121.5	0.25	4.54	5.12	5	37	4	99	0.05	0.1	9.375	1.480	37	4	7 7	
OCR-749	179		A 006-35-H		7.44Y 123.9	0.00	2.08	8.57	24	63	7	99	0.00	0.0	2.854	0.000	0	0	0 20	
749	OCR-749		A 118-#8 A-C		7.41Y 123.4	0.49	2.57	8.57	9	63	7	99	0.16	0.3	4.622	1.768	63	7	20 20	
720	714		ABC 098-#3/0 A		7.54Y 125.7	0.03	0.27	7.40	2	166	19	99	0.02	0.0	0.798	0.589	166	19	48 48	
----- Feeder NO. 3 Beginning with Node Element 8603																				
8603	8600		ABC Node		7.56Y 126.0	0.00	0.00	51.42	0	1111	355	95	0.00	0.0	0.000	0.000	0	0	0 337	
718	8603		ABC 098-#3/0 A		7.55Y 125.8	0.18	0.18	51.42	17	1111	355	95	1.23	0.1	0.260	0.260	199	156	7 337	
FUSE-709	718		ABC 083-30N FU		7.55Y 125.8															

Balanced Voltage Drop Report
Source: 8600

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Eri 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
4020	715	ABC	116-4-ACWC	7.49Y	124.8	0.25	1.20	46.21	26	1032	127	99	1.86	0.2	1.565	0.230	117	13	23	216
171	4020	ABC	116-4-ACWC	7.37Y	122.8	1.96	3.16	40.99	23	914	112	99	12.70	1.4	3.729	2.164	187	21	50	193
170	171	ABC	098-#3/0 A	7.35Y	122.5	0.30	3.46	29.18	10	641	76	99	1.31	0.2	4.535	0.807	95	11	15	126
OCR-168	170	ABC	006- 35-H	7.35Y	122.5	0.00	3.46	21.06	60	461	54	99	0.00	0.0	4.535	0.000	0	0	0	100
168	OCR-168	ABC	098-#3/0 A	7.32Y	122.1	0.47	3.93	21.06	7	461	54	99	1.34	0.3	6.655	2.120	207	23	41	100
4008	168	A	118-#8 A-C	7.30Y	121.6	0.44	4.37	11.84	12	86	10	99	0.20	0.2	7.807	1.152	86	10	17	17
SECTZR-601	168	B	099-SECTIO	7.32Y	122.1	0.00	3.93	7.32	29	53	6	99	0.00	0.0	6.655	0.000	0	0	0	19
601	SECTZR-601	B	117-#6 A-C	7.32Y	121.9	0.15	4.08	7.32	5	53	6	99	0.04	0.1	7.630	0.975	53	6	19	19
OCR-600	168	C	047-70-63.	7.32Y	122.1	0.00	3.93	15.64	22	114	13	99	0.00	0.0	6.655	0.000	0	0	0	23
600	OCR-600	C	117-#6 A-C	7.28Y	121.4	0.67	4.60	15.64	11	114	13	99	0.40	0.3	8.645	1.990	113	13	23	23
167	170	ABC	098-#3/0 A	7.35Y	122.5	0.02	3.48	3.78	1	83	9	99	0.01	0.0	5.290	0.755	83	9	11	11
169	171	C	118-#8 A-C	7.33Y	122.2	0.59	3.75	9.98	10	73	8	99	0.23	0.3	5.547	1.019	73	8	17	17
Feeder NO.		1	Beginning with Node Element 8601																	
P 8601	8600	ABC	Node	7.56Y	126.0	0.00	0.00	0.00	0	0	0	0	0.00	0.0	0.000	0.000	0	0	0	0 P

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	7526	0	0	0	0	0	67	0.00	7592	Lowest Voltage = 120.54	on Element 187		
KVAR	2432	0	0	0	0	0	72		2505	Max Accm VoltD = 5.46	on Element 187		
										Max Elem VoltD = 1.96	on Element 171		

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HARDINSBURG 2 SUMMER 2008

Balanced Voltage Drop Report Source: 8700

Detail

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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
8700		ABC	SRC-8700-D	7.56Y	126.0	0.00	0.00	239.71	0	4833	2489	89	0.00	0.0	0.000	0.000	0	0	0	983
Feeder NO. 3		Beginning with Node Element 8703																		
8703	8700	ABC	Node	7.56Y	126.0	0.00	0.00	55.52	0	1036	716	82	0.00	0.0	0.000	0.000	0	0	0	102
625	8703	ABC	098-#3/0 A	7.51Y	125.2	0.77	0.77	55.52	19	1036	716	82	4.56	0.4	0.997	0.997	436	285	4	102
861	625	ABC	098-#3/0 A	7.51Y	125.2	0.02	0.79	25.47	8	461	342	80	0.05	0.0	1.031	0.034	0	0	0	74
862	861	ABC	098-#3/0 A	7.51Y	125.2	0.06	0.84	25.47	8	461	342	80	0.17	0.0	1.154	0.123	1	0	2	74
751	862	ABC	110-#4 ACS	7.47Y	124.5	0.64	1.48	25.44	18	460	341	80	1.54	0.3	3.132	1.978	0	0	0	72
P 162	751	ABC	110-#4 ACS	7.46Y	124.3	0.26	1.74	19.61	14	320	301	73	0.30	0.1	5.099	1.968	320	301	11	11 P
OCR-160	751	ABC	011- 70-L	7.47Y	124.5	0.00	1.48	6.41	9	139	37	97	0.00	0.0	3.132	0.000	0	0	0	61
160	OCR-160	ABC	102-#1/0 A	7.46Y	124.3	0.17	1.65	6.41	3	139	37	97	0.12	0.1	5.391	2.259	101	27	44	61
RECLOSER-161	160	B	098-25H OC	7.46Y	124.3	0.00	1.65	5.29	21	38	10	97	0.00	0.0	5.391	0.000	0	0	0	17
161	RECLOSER-161	B	118-#8 A-C	7.44Y	123.9	0.40	2.05	5.29	5	38	10	97	0.08	0.2	7.670	2.279	38	10	17	17
719	625	ABC	117-#6 A-C	7.51Y	125.1	0.08	0.85	7.01	5	134	84	85	0.06	0.0	1.591	0.594	134	84	24	24
Feeder NO. 2		Beginning with Node Element 8702																		
8702	8700	ABC	Node	7.56Y	126.0	0.00	0.00	79.70	0	1567	902	87	0.00	0.0	0.000	0.000	0	0	0	210
158	8702	ABC	098-#3/0 A	7.37Y	122.8	3.22	3.22	79.70	27	1567	902	87	31.54	2.0	2.441	2.441	143	38	35	210
4013	158	ABC	098-#3/0 A	7.36Y	122.7	0.13	3.35	37.69	13	706	443	85	0.48	0.1	2.727	0.286	362	349	5	126
OCR-157	4013	ABC	011- 70-L	7.36Y	122.7	0.00	3.35	16.09	23	343	93	97	0.00	0.0	2.727	0.000	0	0	0	121
157	OCR-157	ABC	098-#3/0 A	7.33Y	122.2	0.43	3.77	16.09	5	343	93	97	0.95	0.3	4.559	1.833	34	9	16	121
156	157	ABC	098-#3/0 A	7.32Y	122.1	0.17	3.94	7.78	3	165	45	96	0.16	0.1	6.313	1.754	66	18	21	47
1156	156	ABC	098-#3/0 A	7.32Y	122.0	0.02	3.96	4.68	2	99	27	96	0.01	0.0	6.658	0.345	23	6	6	26
1157	1156	ABC	098-#3/0 A	7.32Y	122.0	0.01	3.98	3.62	1	77	21	96	0.01	0.0	6.950	0.291	13	4	4	20
1158	1157	ABC	098-#3/0 A	7.32Y	122.0	0.04	4.02	2.99	1	64	17	97	0.02	0.0	7.977	1.027	6	2	4	16
OCR-1159	1158	A	049-100-63	7.32Y	122.0	0.00	4.02	8.09	8	57	15	97	0.00	0.0	7.977	0.000	0	0	0	12
1159	OCR-1159	A	118-#8 A-C	7.32Y	122.0	0.02	4.04	8.09	8	57	15	97	0.01	0.0	8.012	0.035	1	0	1	12
1160	1159	A	117-#6 A-C	7.31Y	121.9	0.05	4.09	7.96	6	56	15	97	0.02	0.0	8.162	0.150	1	0	1	11
OCR-1161	1160	A	049-100-63	7.31Y	121.9	0.00	4.09	7.79	6	55	15	96	0.00	0.0	8.162	0.000	0	0	0	10
1161	OCR-1161	A	117-#6 A-C	7.31Y	121.8	0.12	4.22	7.79	6	55	15	96	0.04	0.1	8.591	0.430	22	6	3	10
1162	1161	A	117-#6 A-C	7.30Y	121.7	0.07	4.29	4.74	3	33	9	96	0.01	0.0	9.055	0.464	19	5	3	7
1163	1162	A	118-#8 A-C	7.30Y	121.7	0.02	4.31	2.07	2	15	4	97	0.00	0.0	9.215	0.160	0	0	1	4
1164	1163	A	110-#4 ACS	7.30Y	121.7	0.01	4.32	2.06	1	15	4	97	0.00	0.0	9.463	0.248	0	0	0	3
1165	1164	A	110-#4 ACS	7.30Y	121.7	0.00	4.32	2.06	1	15	4	97	0.00	0.0	9.670	0.207	15	4	3	3
OCR-155	157	C	060-35-4H	7.33Y	122.2	0.00	3.77	10.96	31	78	21	97	0.00	0.0	4.559	0.000	0	0	0	28
155	OCR-155	C	118-#8 A-C	7.26Y	121.1	1.18	4.95	10.96	11	78	21	97	0.60	0.8	6.697	2.138	38	10	15	28
212	155	C	118-#8 A-C	7.25Y	120.9	0.19	5.14	5.54	6	39	10	97	0.04	0.1	7.740	1.051	39	10	13	13
FUSE-154	157	B	083-30N FU	7.33Y	122.2	0.00	3.77	9.20	15	65	18	96	0.00	0.0	4.559	0.000	0	0	0	30
154	FUSE-154	B	118-#8 A-C	7.28Y	121.4	0.86	4.64	9.20	9	65	18	96	0.30	0.5	7.372	2.812	65	17	30	30
4012	158	A	106-#2 ACS	7.35Y	122.6	0.20	3.42	9.69	5	69	19	96	0.06	0.1	3.701	1.259	69	18	18	18
901	158	ABC	106-#2 ACS	7.35Y	122.6	0.21	3.43	32.48	18	617	367	86	0.72	0.1	2.880	0.439	567	353	16	31
902	901	B	106-#2 ACS	7.35Y	122.4	0.13	3.56	7.00	4	50	13	97	0.03	0.1	4.015	1.134	50	13	15	15
Feeder NO. 1		Beginning with Node Element 8701																		
8701	8700	ABC	Node	7.56Y	126.0	0.00	0.00	88.88	0	1884	716	93	0.00	0.0	0.000	0.000	0	0	0	547
502	8701	ABC	090-336 AC	7.52Y	125.3	0.75	0.75	88.88	17	1884	716	93	6.68	0.4	1.059	1.059	105	28	43	547
P 4073	502	ABC	090-336 AC	7.52Y	125.3	0.00	0.75	0.00	0	0	0	0	0.00	0.0	1.066	0.006	0	0	0	0 P
889	502	ABC	090-336 AC	7.51Y	125.2	0.07	0.82	84.08	16	1772	672	94	0.64	0.0	1.168	0.109	0	0	0	504
711	889	ABC	098-#3/0 A	7.44Y	124.0	1.17	1.99	84.08	28	1772	671	94	12.61	0.7	2.124	0.956	259	186	26	504
214	711	ABC	098-#3/0 A	7.41Y	123.4	0.59	2.57	70.42	23	1500	471	95	5.72	0.4	2.668	0.544	32	28	3	478
OCR-213	214	C	005- 25-H	7.41Y	123.4	0.00	2.57	2.71	11	19	5	97	0.00	0.0	2.668	0.000	0	0	0	7
213	OCR-213	C	106-#2 ACS	7.40Y	123.3	0.11	2.69	2.71	2	19	5	97	0.01	0.1	5.281	2.614	19	5	7	7
211	214	ABC	098-#3/0 A	7.31Y	121.8	1.65	4.22	67.80	23	1443	431	96	15.39	1.1	4.299	1.631	95	25	25	468
4028	211	C	117-#6 A-C	7.29Y	121.6	0.20	4.42	6.00	4	42	11	97	0.04	0.1	5.774	1.475	42	11	19	19
4004	211	ABC	098-#3/0 A	7.28Y	121.3	0.45	4.67	61.34	20	1291	377	96	3.86	0.3	4.790	0.491	55	15	10	424
4005	4004	ABC	Regulator	7.56Y	126.0	-4.67	0.00	58.74	27	1232	358	96	0.00	0.0	4.790	0.000	0	0	0	414
209	4005	ABC	098-#3/0 A	7.52Y	125.3	0.69	0.69	56.56	19	1232	358	96	5.43	0.4	5.609	0.820	68	18	19	414
OCR-208	209	ABC	012-100-L	7.52Y	125.3	0.00	0.69	25.24	25	549	149	97	0.00	0.0	5.609	0.000	0	0	0	183
208	OCR-208	ABC	106-#2 ACS	7.44Y	124.0	1.27	1.96	25.24	14	549	149	97	4.66	0.8	7.799	2.190	146	39	27	183
OCR-207	208	B	007- 50-H	7.44Y	124.0	0.00	1.96	7.83	16	56	15	97	0.00	0.0	7.799	0.000	0	0	0	22
207	OCR-207	B	106-#2 ACS	7.43Y	123.8	0.27	2.23	7.83	4	56	15	97	0.07	0.1	9.960	2.160	56	15	22	22
206	208	ABC	106-#2 ACS	7.43Y	123.8	0.26	2.21	12.96	7	279	75	97	0.49	0.2	8.653	0.854	68	18	15	101
OCR-205	206	C	006- 35-H	7.43Y	123.8	0.00	2.21	13.31	38	95	26	96	0.00	0.0	8.653	0.000	0	0	0	45
205	OCR-205	C	117-#6 A-C	7.37Y</																

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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	I Cap	Thru KW	I KVAR	PF	kW Loss	I Loss	mi From Src	-----Element-----				
																Length (mi)	KW	KVAR	Cons On	Cons Thru
OCR-86	83	ABC	006-35-H	7.47Y	124.4	0.00	1.56	6.60	19	143	38	97	0.00	0.0	8.208	0.000	0	0	0	59
86	OCR-86	ABC	106-#2 ACS	7.46Y	124.3	0.17	1.72	6.60	4	143	38	97	0.17	0.1	9.222	1.015	18	5	10	59
FUSE-85	86	C	083-30W FU	7.46Y	124.3	0.00	1.72	10.83	18	78	21	97	0.00	0.0	9.222	0.000	0	0	0	31
85	FUSE-85	C	118-#8 A-C	7.40Y	123.4	0.92	2.64	10.83	11	78	21	97	0.37	0.5	11.760	2.538	78	21	31	31
FUSE-84	86	B	083-30W FU	7.46Y	124.3	0.00	1.72	6.42	11	46	12	97	0.00	0.0	9.222	0.000	0	0	0	18
84	FUSE-84	B	118-#8 A-C	7.44Y	124.0	0.32	2.04	6.42	6	46	12	97	0.08	0.2	10.730	1.508	46	12	18	18
OCR-210	209	A	005-25-H	7.52Y	125.3	0.00	0.69	16.32	65	118	32	97	0.00	0.0	5.609	0.000	0	0	0	50
210	OCR-210	A	106-#2 ACS	7.47Y	124.6	0.76	1.45	16.32	9	118	32	97	0.42	0.4	8.475	2.866	118	32	50	50
8704	8700	ABC	098-#3/0 A	7.56Y	125.9	0.08	0.08	16.75	6	346	156	91	0.17	0.1	0.286	0.286	0	0	0	124
490	8704	ABC	098-#3/0 A	7.55Y	125.8	0.08	0.16	16.75	6	346	156	91	0.12	0.0	0.889	0.603	346	155	124	124
P 4046	490	ABC	118-#8 A-C	7.55Y	125.8	0.00	0.16	0.00	0	0	0	0	0.00	0.0	0.902	0.013	0	0	0	0 P

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	GenMotors	Loops&Metas	Losses	No Load	Losses	Total		
KW	4730	0	0	0	0	0	103	0.00	4833	Lowest Voltage = 120.86 on Element 212		
KVAR	2368	0	0	0	0	0	121	2489	Max Accm VoltD = 5.14 on Element 212			
										Max Elem VoltD = 3.22 on Element 158		

HARNED SUMMER 2008

Balanced Voltage Drop Report
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Detail

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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	kVA Loss	mi From Src	Length (mi)	KM	KVAR	Cons On	Cons Thru
8140		ABC	SRC-8140-D	7.56Y	126.0	0.00	0.00	261.40	0	5445	2346	92	0.00	0.0	0.000	0.000	0	0	0	1155
Feeder NO. 1		Beginning with Node Element NODE19																		
NODE19	8140	ABC	Node	7.56Y	126.0	0.00	0.00	107.20	0	2155	1126	89	0.00	0.0	0.000	0.000	0	0	0	553
1149	NODE19	ABC	220-500 MC	7.56Y	126.0	0.03	0.03	107.20	28	2155	1126	89	0.77	0.0	0.073	0.073	0	0	0	553
787	1149	ABC	098-#3/0 A	7.54Y	125.6	0.33	0.36	34.87	12	663	431	84	0.95	0.1	1.158	1.084	662	430	158	158
608	1149	ABC	098-#3/0 A	7.48Y	124.7	1.29	1.31	72.57	24	1491	696	91	10.55	0.7	1.461	1.388	521	469	40	395
607	608	ABC	098-#3/0 A	7.48Y	124.7	0.04	1.35	5.29	2	116	25	98	0.02	0.0	2.390	0.929	116	25	22	22
4029	608	ABC	098-#3/0 A	7.47Y	124.5	0.14	1.45	38.53	13	844	189	98	0.78	0.1	1.726	0.265	90	20	35	333
201	4029	ABC	116-4-ACWC	7.40Y	123.4	1.16	2.61	34.44	19	753	168	98	6.07	0.8	3.183	1.457	150	33	58	298
911	201	ABC	Regulator	7.56Y	126.0	-2.61	0.00	27.56	13	598	132	98	0.00	0.0	3.183	0.000	0	0	0	240
200	911	ABC	116-4-ACWC	7.53Y	125.5	0.46	0.46	26.99	15	598	132	98	1.94	0.3	3.895	0.712	79	17	19	240
OCR-199	200	A C	006-35-H	7.53Y	125.5	0.00	0.46	18.54	53	273	60	98	0.00	0.0	3.895	0.000	0	0	0	118
199	OCR-199	A C	117-#6 A-C	7.51Y	125.1	0.39	0.85	18.54	13	273	60	98	0.54	0.2	4.907	1.012	272	60	118	118
OCR-198	200	C	060-35-4H	7.53Y	125.5	0.00	0.46	5.98	17	44	10	98	0.00	0.0	3.895	0.000	0	0	0	15
198	OCR-198	C	118-#8 A-C	7.51Y	125.2	0.33	0.79	5.98	6	44	10	98	0.07	0.2	5.543	1.648	44	10	15	15
197	200	ABC	116-4-ACWC	7.52Y	125.4	0.18	0.64	9.05	5	200	44	98	0.18	0.1	5.430	1.536	200	44	88	88
Feeder NO. 2		Beginning with Node Element NODE18																		
NODE18	8140	ABC	Node	7.56Y	126.0	0.00	0.00	154.71	0	3290	1220	94	0.00	0.0	0.000	0.000	0	0	0	602
1150	NODE18	ABC	220-500 MC	7.56Y	126.0	0.04	0.04	154.71	40	3290	1220	94	1.56	0.0	0.072	0.072	0	0	0	602
P 786	1150	ABC	098-#3/0 A	7.56Y	126.0	0.00	0.04	0.00	0	0	0	0	0.00	0.0	1.157	1.085	0	0	0	0
C 190	1150	ABC	098-#3/0 A	7.36Y	122.7	3.27	3.31	154.71	52	3288	1220	94	64.35	2.0	1.577	1.505	612	423	6	602
745	190	ABC	098-#3/0 A	7.27Y	121.2	1.46	4.78	122.75	41	2613	723	96	25.63	1.0	2.361	0.784	0	0	0	596
C OCR-216	745	B	006-35-H	7.27Y	121.2	0.00	4.78	31.29	89	222	50	98	0.00	0.0	2.361	0.000	0	0	0	83
216	OCR-216	B	106-#2 ACS	7.17Y	119.5	1.74	6.51	31.29	17	222	50	98	2.24	1.0	4.895	2.534	136	30	53	83
FUSE-215	216	B	083-30M FU	7.17Y	119.5	0.00	6.51	8.70	14	61	13	98	0.00	0.0	4.895	0.000	0	0	0	23
215	FUSE-215	B	106-#2 ACS	7.15Y	119.1	0.34	6.86	8.70	5	61	13	98	0.10	0.2	7.384	2.489	61	13	23	23
4107	216	B	110-#4 ACS	7.17Y	119.5	0.01	6.52	3.24	2	23	5	98	0.00	0.0	5.150	0.255	23	5	7	7
196	745	ABC	098-#3/0 A	7.18Y	119.7	1.57	6.35	112.33	37	2365	644	96	25.32	1.1	3.286	0.925	0	0	0	513
4030	196	ABC	098-#3/0 A	7.16Y	119.4	0.29	6.64	80.76	27	1679	454	97	3.31	0.2	3.523	0.237	17	14	3	317
4087	4030	ABC	Regulator	7.56Y	126.0	-6.64	0.00	79.81	36	1658	436	97	0.00	0.0	3.523	0.000	0	0	0	314
535	4087	ABC	098-#3/0 A	7.41Y	123.5	2.52	2.52	75.61	25	1658	436	97	26.46	1.6	5.882	2.359	192	51	52	314
OCR-188	535	C	007-50-H	7.41Y	123.5	0.00	2.52	7.27	15	53	12	98	0.00	0.0	5.882	0.000	0	0	0	26
188	OCR-188	C	118-#8 A-C	7.39Y	123.1	0.37	2.90	7.27	7	53	12	98	0.10	0.2	7.427	1.545	53	12	26	26
OCR-185	535	C	049-100-63	7.41Y	123.5	0.00	2.52	5.96	6	43	9	98	0.00	0.0	5.882	0.000	0	0	0	6
185	OCR-185	C	117-#6 A-C	7.40Y	123.4	0.12	2.64	5.96	4	43	9	98	0.03	0.1	6.749	0.867	43	9	6	6
182	535	ABC	098-#3/0 A	7.36Y	122.7	0.75	3.27	62.34	21	1344	335	97	6.51	0.5	6.739	0.857	153	61	32	230
P 4839	182	ABC	Capacitor	7.36Y	122.7	0.00	3.27	16.87	0	274	-253	-73	0.00	0.0	6.739	0.000	0	0	0	73
4836	4839	ABC	098-#3/0 A	7.35Y	122.5	0.19	3.46	12.69	4	274	61	98	0.31	0.1	8.050	1.311	118	26	33	73
4818	4836	C	118-#8 A-C	7.35Y	122.4	0.09	3.56	21.67	22	156	34	98	0.11	0.1	8.118	0.068	13	3	3	40
OCR-4819	4818	C	061-50-4H	7.35Y	122.4	0.00	3.56	19.91	40	143	32	98	0.00	0.0	8.118	0.000	0	0	0	37
4819	OCR-4819	C	117-#6 A-C	7.31Y	121.8	0.68	4.24	19.91	14	143	32	98	0.68	0.5	8.974	0.856	32	7	7	37
4820	4819	C	106-#2 ACS	7.29Y	121.6	0.20	4.44	15.45	9	110	24	98	0.16	0.1	9.379	0.406	0	0	0	30
183	4820	C	117-#6 A-C	7.28Y	121.3	0.26	4.70	15.45	11	110	24	98	0.15	0.1	10.133	0.754	110	24	30	30
4815	182	ABC	106-#2 ACS	7.36Y	122.6	0.10	3.37	35.70	20	642	458	81	0.39	0.1	6.915	0.176	515	430	8	53
4816	4815	B	106-#2 ACS	7.36Y	122.6	0.02	3.39	17.64	10	127	28	98	0.02	0.0	6.945	0.030	0	0	0	45
OCR-4817	4816	B	061-50-4H	7.36Y	122.6	0.00	3.39	17.64	35	127	28	98	0.00	0.0	6.945	0.000	0	0	0	45
4817	OCR-4817	B	106-#2 ACS	7.35Y	122.4	0.16	3.55	17.64	10	127	28	98	0.13	0.1	7.308	0.364	49	11	14	45
OCR-184	4817	B	051-140-63	7.35Y	122.4	0.00	3.55	10.74	8	77	17	98	0.00	0.0	7.308	0.000	0	0	0	31
184	OCR-184	B	110-#4 ACS	7.34Y	122.3	0.14	3.69	10.74	8	77	17	98	0.04	0.1	9.007	1.699	77	17	31	31
1180	182	A	106-#2 ACS	7.24Y	120.7	2.02	5.29	37.57	21	270	62	97	3.34	1.2	8.929	2.190	121	26	32	72
1181	1180	A	106-#2 ACS	7.21Y	120.2	0.49	5.78	20.56	11	145	33	98	0.50	0.3	9.737	0.808	20	4	7	40
1182	1181	A	106-#2 ACS	7.17Y	119.5	0.67	6.45	17.73	10	125	28	98	0.57	0.5	11.071	1.334	26	6	5	33
1183	1182	A	106-#2 ACS	7.17Y	119.5	0.03	6.48	13.98	8	98	22	98	0.02	0.0	11.137	0.066	12	3	8	28
1184	1183	A	106-#2 ACS	7.16Y	119.4	0.16	6.65	12.23	7	86	19	98	0.10	0.1	11.619	0.482	21	5	4	20
1185	1184	A	106-#2 ACS	7.15Y	119.2	0.14	6.79	9.17	5	64	14	98	0.06	0.1	12.232	0.613	27	6	9	16
1186	1185	A	106-#2 ACS	7.15Y	119.2	0.04	6.82	5.36	3	37	8	98	0.01	0.0	12.670	0.439	37	8	7	7
OCR-746	196	ABC	007-50-H	7.18Y	119.7	0.00	6.35	31.58	63	661	161	97	0.00	0.0	3.526	0.000	0	0	0	196
746	OCR-746	ABC	098-#3/0 A	7.17Y	119.5	0.11	6.46	31.58	11	661	161	97	0.48	0.1	3.529	0.243	68	27	15	196
4081	746	ABC	098-#3/0 A	7.17Y	119.5	0.07	6.52	28.23	9	593	133	98	0.28	0.0	3.690	0.162	4	1	1	181
4082	4081	ABC	Regulator</																	

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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	Loss	Loss	mi From Src	Length (mi)	Element	Cons On	Cons Thru	
KVAR	2456	0	-314	0	0	0	0	203			2346									
															Max Accm VoltD =	6.86	on Element 215			
															Max Elem VoltD =	3.27	on Element 190			

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Livingston Summer 2008

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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	Cons On	Cons Thru	
8800		ABC	SRC-8800-D	7.56Y	126.0	0.00	0.00	418.72	0	8526	4182	90	0.00	0.0	0.000	0.000	0	0	0	2124
----- Feeder NO. 6 Beginning with Node Element 8806																				
8806	8800	ABC	Node	7.56Y	126.0	0.00	0.00	105.08	0	2125	1080	89	0.00	0.0	0.000	0.000	0	0	0	388
C 394	8806	ABC	113-2F 7/1	7.34Y	122.3	3.73	3.73	105.08	62	2125	1080	89	52.77	2.5	1.821	1.821	1	1	2	388 C
394		ABC	Regulator	7.56Y	126.0	-3.73	0.00	69.58	32	1438	527	94	0.00	0.0	1.821	0.000	0	0	0	378
990	991	ABC	116-4-ACWC	7.48Y	124.6	1.35	1.35	67.52	38	1438	527	94	14.42	1.0	2.578	0.757	4	0	2	378
OCR-897	990	ABC	012-100-L	7.48Y	124.6	0.00	0.00	23.11	23	518	8	100	0.00	0.0	2.578	0.000	0	0	0	210
897	OCR-897	ABC	098-#3/0 A	7.47Y	124.5	0.16	1.51	23.11	8	518	8	100	0.63	0.1	3.126	0.548	1	0	1	210
393	897	ABC	098-#3/0 A	7.45Y	124.1	0.36	1.87	23.09	8	517	8	100	1.43	0.3	4.465	1.339	47	0	19	209
391	393	ABC	098-#3/0 A	7.43Y	123.9	0.22	2.09	20.99	7	469	6	100	0.80	0.2	5.355	0.890	31	8	9	190
OCR-390	391	A	006-35-H	7.43Y	123.9	0.00	2.09	10.81	31	80	0	100	0.00	0.0	5.355	0.000	0	0	0	39
390	OCR-390	A	100-#2/0 A	7.42Y	123.6	0.27	2.36	10.81	4	80	0	100	0.12	0.1	8.736	3.381	80	-1	39	39
389	391	ABC	098-#3/0 A	7.43Y	123.8	0.11	2.20	15.98	5	356	-2	-100	0.32	0.1	5.931	0.576	0	0	0	142
388	389	ABC	098-#3/0 A	7.42Y	123.7	0.07	2.27	7.14	2	159	-1	-100	0.09	0.1	6.897	0.966	29	0	9	60
1405	388	B	106-#2 ACS	7.42Y	123.7	0.00	2.28	2.83	2	21	0	100	0.00	0.0	6.948	0.051	0	0	0	11
OCR-1406	1405	B	061-50-4H	7.42Y	123.7	0.00	2.28	2.83	6	21	0	100	0.00	0.0	6.948	0.000	0	0	0	11
1406	OCR-1406	B	106-#2 ACS	7.42Y	123.7	0.04	2.31	2.83	2	21	0	100	0.00	0.0	7.898	0.950	21	0	11	11
1388	388	ABC	098-#3/0 A	7.42Y	123.7	0.02	2.29	4.88	2	109	-1	-100	0.01	0.0	7.203	0.306	24	0	7	40
1389	1388	ABC	098-#3/0 A	7.42Y	123.7	0.00	2.29	3.79	1	84	-1	-100	0.00	0.0	7.274	0.071	22	0	5	33
1403	1389	A	106-#2 ACS	7.42Y	123.7	0.06	2.35	5.54	3	41	0	100	0.02	0.0	7.802	0.528	22	0	12	19
1404	1403	A	117-#6 A-C	7.42Y	123.6	0.01	2.36	2.63	2	19	0	100	0.00	0.0	8.059	0.257	19	0	7	7
OCR-1400	1389	C	006-35-H	7.42Y	123.7	0.00	2.29	2.88	8	21	0	100	0.00	0.0	7.274	0.000	0	0	0	9
1400	OCR-1400	C	110-#4 ACS	7.42Y	123.7	0.01	2.30	2.88	2	21	0	100	0.00	0.0	7.763	0.489	19	0	7	9
1401	1400	C	098-#3/0 A	7.42Y	123.7	0.00	2.30	0.26	0	2	0	100	0.00	0.0	8.134	0.371	2	0	2	2
P 1402	1401	C	098-#3/0 A	7.42Y	123.7	0.00	2.30	0.00	0	0	0	0	0.00	0.0	8.433	0.300	0	0	0	0 P
4931	389	ABC	116-4-ACWC	7.41Y	123.6	0.25	2.45	8.84	5	197	-1	-100	0.37	0.2	7.299	1.369	41	0	16	82
387	4931	ABC	116-4-ACWC	7.41Y	123.4	0.11	2.56	7.00	4	156	-1	-100	0.12	0.1	8.152	0.853	64	-1	20	66
386	387	ABC	116-4-ACWC	7.40Y	123.4	0.09	2.65	4.12	2	91	-1	-100	0.06	0.1	9.276	1.123	30	0	13	46
OCR-385	386	A	006-35-H	7.40Y	123.4	0.00	2.65	8.36	24	62	0	100	0.00	0.0	9.276	0.000	0	0	0	33
385	OCR-385	A	117-#6 A-C	7.38Y	123.0	0.38	3.03	8.36	6	62	0	100	0.13	0.2	11.500	2.224	62	0	33	33
514	990	ABC	098-#3/0 A	7.47Y	124.4	0.22	1.58	46.15	15	901	510	87	1.30	0.1	2.861	0.284	13	0	5	166
OCR-376	514	C	007-50-H	7.47Y	124.4	0.00	1.58	13.57	27	101	-1	-100	0.00	0.0	2.861	0.000	0	0	0	67
376	OCR-376	C	117-#6 A-C	7.42Y	123.7	0.69	2.26	13.57	10	101	-1	-100	0.37	0.4	5.353	2.491	101	-1	67	67
707	514	ABC	098-#3/0 A	7.46Y	124.3	0.16	1.74	41.80	14	785	509	84	0.70	0.1	3.162	0.300	345	322	18	94
OC34	707	ABC	007-50-H	7.46Y	124.3	0.00	1.74	21.35	43	440	187	92	0.00	0.0	3.162	0.000	0	0	0	76
clifton mills	OC34	ABC	098-#3/0 A	7.43Y	123.8	0.48	2.21	21.35	7	440	187	92	1.02	0.2	5.407	2.245	300	186	0	76
OCR-382	clifton mills	A	011-70-L	7.43Y	123.8	0.00	2.21	18.65	27	138	0	100	0.00	0.0	5.407	0.000	0	0	0	76
382	OCR-382	A	106-#2 ACS	7.39Y	123.1	0.65	2.87	18.65	10	138	0	100	0.61	0.4	7.091	1.685	66	-1	37	76
OCR-380	382	A	051-140-63	7.39Y	123.1	0.00	2.87	9.67	7	71	0	100	0.00	0.0	7.091	0.000	0	0	0	39
380	OCR-380	A	106-#2 ACS	7.36Y	122.7	0.46	3.32	9.67	5	71	0	100	0.20	0.3	9.946	2.855	55	0	30	39
OCR-381	380	A	051-140-63	7.36Y	122.7	0.00	3.32	2.17	2	16	0	100	0.00	0.0	9.946	0.000	0	0	0	9
381	OCR-381	A	118-#8 A-C	7.35Y	122.5	0.13	3.46	2.17	2	16	0	100	0.01	0.1	11.940	1.994	16	0	9	9
P 823	394	ABC	116-4-ACWC	7.32Y	122.1	0.22	3.95	36.64	20	633	500	78	0.85	0.1	2.275	0.454	632	500	8	8 P
----- Feeder NO. 5 Beginning with Node Element 8805																				
8805	8800	ABC	Node	7.56Y	126.0	0.00	0.00	60.81	0	1241	602	90	0.00	0.0	0.000	0.000	0	0	0	296
405	8805	ABC	098-#3/0 A	7.48Y	124.7	1.28	1.28	60.81	20	1241	602	90	9.03	0.7	1.506	1.506	339	267	48	296
OCR-404	405	C	009-35-L	7.48Y	124.7	0.00	1.28	1.01	3	7	2	96	0.00	0.0	1.506	0.000	0	0	0	2
404	OCR-404	C	117-#6 A-C	7.48Y	124.7	0.04	1.32	1.01	1	7	2	96	0.00	0.0	3.410	1.904	7	2	2	2
403	405	ABC	098-#3/0 A	7.43Y	123.9	0.84	2.12	39.71	13	836	310	94	4.24	0.5	3.093	1.587	218	144	31	230
OCR-402	403	B	007-50-H	7.43Y	123.9	0.00	2.12	22.72	45	163	43	97	0.00	0.0	3.093	0.000	0	0	0	64
402	OCR-402	B	106-#2 ACS	7.35Y	122.5	1.33	3.45	22.72	13	163	43	97	1.36	0.8	5.285	2.192	56	14	22	64
FUSE-401	402	B	083-30N FU	7.35Y	122.5	0.00	3.45	9.63	16	69	18	97	0.00	0.0	5.285	0.000	0	0	0	29
401	FUSE-401	B	117-#6 A-C	7.33Y	122.1	0.46	3.91	9.63	7	69	18	97	0.19	0.3	6.704	1.419	37	9	17	29
396	401	B	117-#6 A-C	7.32Y	121.9	0.17	4.07	4.48	3	32	8	97	0.03	0.1	8.342	1.638	32	8	12	12
400	402	B	106-#2 ACS	7.35Y	122.4	0.12	3.57	5.27	3	38	10	97	0.02	0.1	6.716	1.431	38	10	13	13
FUSE-399	403	ABC	083-30N FU	7.43Y	123.9	0.00	2.12	18.08	30	390	102	97	0.00	0.0	3.093	0.000	0	0	0	119
399	FUSE-399	ABC	098-#3/0 A	7.42Y	123.7	0.19	2.31	18.08	6	390	102	97	0.45	0.1	3.853	0.760	80	20	15	119
FUSE-398	399	ABC	083-30N FU	7.42Y	123.7	0.00	2.31	14.37	24	309	81	97	0.00	0.0	3.853	0.000	0	0	0	104
398	FUSE-398	ABC	098-#3/0 A	7.40Y	123.3	0.36	2.66	14.37	5	309	81	97	0.65	0.2	5.885	2.032	117	30	32	104
OCR-397	398	A	051-140-63	7.40Y	123.3	0.00	2.66	12.29	9	88	23	97	0.00	0.0	5.885	0				

Balanced Voltage Drop Report
Source: 8800

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.WM\
Title:
Case:

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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	kW Loss	% Loss	mi From Src	Length (mi)	Element KW	Cons On	Cons Thru		
OCR-4132	4131	B	061-50-4H	7.40Y	123.4	0.00	2.59	13.67	27	93	40	92	0.00	0.0	3.372	0.000	0	0	0	25
4132	OCR-4132	B	106-#2 ACS	7.40Y	123.3	0.11	2.70	13.67	8	93	40	92	0.07	0.1	3.604	0.231	0	0	0	25
4133	4132	B	106-#2 ACS	7.37Y	122.9	0.44	3.14	13.67	8	93	40	92	0.28	0.3	4.560	0.957	3	1	1	25
OCR-4144	4133	B	051-140-63	7.37Y	122.9	0.00	3.14	13.17	9	89	38	92	0.00	0.0	4.560	0.000	0	0	0	24
4144	OCR-4144	B	106-#2 ACS	7.36Y	122.6	0.22	3.36	13.17	7	89	38	92	0.09	0.1	5.538	0.978	89	38	24	24
OCR-4104	4103	A	010- 50-L	7.42Y	123.6	0.00	2.38	25.96	52	177	76	92	0.00	0.0	2.667	0.000	0	0	0	39
4104	OCR-4104	A	106-#2 ACS	7.39Y	123.2	0.44	2.82	25.96	14	177	76	92	0.50	0.3	3.257	0.590	54	23	3	39
732	4104	A	118-#8 A-C	7.34Y	122.3	0.85	3.67	17.98	18	122	52	92	0.57	0.5	4.666	1.409	122	52	36	36
525	427	C	110-#4 ACS	7.42Y	123.7	0.13	2.27	14.02	10	96	41	92	0.04	0.0	3.339	1.030	96	41	15	15
OCR-426	4080	C	049-100-63	7.49Y	124.8	0.00	1.21	22.35	22	154	66	92	0.00	0.0	1.292	0.000	0	0	0	63
426	OCR-426	C	118-#8 A-C	7.48Y	124.7	0.08	1.29	22.35	22	154	66	92	0.07	0.0	1.401	0.109	154	66	63	63
----- Feeder NO. 3 Beginning with Node Element 8803																				
8803	8800	ABC	Node	7.56Y	126.0	0.00	0.00	63.82	0	1303	631	90	0.00	0.0	0.000	0.000	0	0	0	376
428	8803	ABC	102-#1/0 A	7.52Y	125.4	0.64	0.64	63.82	28	1303	631	90	5.03	0.4	0.600	0.600	374	181	122	376
FUSE-729	428	ABC	083-30M FU	7.52Y	125.4	0.00	0.64	29.78	50	605	292	90	0.00	0.0	0.600	0.000	0	0	0	142
729	FUSE-729	ABC	106-#2 ACS	7.51Y	125.2	0.21	0.85	29.78	17	605	292	90	0.88	0.1	0.895	0.295	155	75	61	142
4101	729	ABC	106-#2 ACS	7.51Y	125.1	0.01	0.86	16.79	9	341	164	90	0.02	0.0	0.915	0.020	0	0	0	70
OCR-4102	4101	ABC	012-100-L	7.51Y	125.1	0.00	0.86	16.79	17	341	164	90	0.00	0.0	0.915	0.000	0	0	0	70
4102	OCR-4102	ABC	098-#3/0 A	7.51Y	125.1	0.04	0.89	16.79	6	341	164	90	0.07	0.0	1.058	0.142	68	33	9	70
OCR-730	4102	ABC	061-50-4H	7.51Y	125.1	0.00	0.89	13.43	27	272	131	90	0.00	0.0	1.058	0.000	0	0	0	61
730	OCR-730	ABC	118-#8 A-C	7.49Y	124.8	0.27	1.16	13.43	13	272	131	90	0.61	0.2	1.412	0.354	29	14	4	61
OCR-733	730	ABC	051-140-63	7.49Y	124.8	0.00	1.16	12.00	9	243	117	90	0.00	0.0	1.412	0.000	0	0	0	57
733	OCR-733	ABC	118-#8 A-C	7.46Y	124.3	0.53	1.69	12.00	12	243	117	90	0.97	0.4	2.381	0.969	109	53	28	57
OCR-4105	733	A	050-140-11	7.46Y	124.3	0.00	1.69	11.90	8	80	39	90	0.00	0.0	2.381	0.000	0	0	0	14
4105	OCR-4105	A	106-#2 ACS	7.45Y	124.2	0.13	1.82	11.90	7	80	39	90	0.05	0.1	3.034	0.653	80	39	14	14
OCR-1733	733	C	007- 50-H	7.46Y	124.3	0.00	1.69	7.82	16	53	25	90	0.00	0.0	2.381	0.000	0	0	0	15
1733	OCR-1733	C	118-#8 A-C	7.44Y	124.0	0.35	2.03	7.82	8	53	25	90	0.10	0.2	3.698	1.317	52	25	15	15
4100	729	ABC	118-#8 A-C	7.51Y	125.1	0.01	0.86	5.35	5	109	52	90	0.01	0.0	0.986	0.091	109	52	11	11
FUSE-728	428	ABC	080-15N FU	7.52Y	125.4	0.00	0.64	15.66	52	318	154	90	0.00	0.0	0.600	0.000	0	0	0	112
728	FUSE-728	ABC	098-#3/0 A	7.52Y	125.3	0.07	0.71	15.66	5	318	154	90	0.10	0.0	1.152	0.552	318	154	112	112
P 4114	728	ABC	110-#4 ACS	7.52Y	125.3	0.00	0.71	0.00	0	0	0	0	0.00	0.0	1.179	0.028	0	0	0	0
----- Feeder NO. 2 Beginning with Node Element 8802																				
8802	8800	ABC	Node	7.56Y	126.0	0.00	0.00	67.61	0	1380	669	90	0.00	0.0	0.000	0.000	0	0	0	426
488	8802	ABC	098-#3/0 A	7.49Y	124.9	1.10	1.10	67.61	23	1380	669	90	9.35	0.7	1.006	1.006	107	50	19	426
424	488	ABC	098-#3/0 A	7.44Y	124.0	0.92	2.02	54.38	18	1101	532	90	6.31	0.6	2.071	1.065	102	48	23	336
OCR-423	424	A	049-100-63	7.44Y	124.0	0.00	2.02	3.44	3	23	11	90	0.00	0.0	2.071	0.000	0	0	0	9
423	OCR-423	A	117-#6 A-C	7.44Y	123.9	0.05	2.07	3.44	2	23	11	90	0.01	0.0	2.721	0.650	23	11	9	9
422	424	ABC	098-#3/0 A	7.37Y	122.9	1.07	3.09	48.20	16	969	467	90	6.69	0.7	3.413	1.342	13	6	4	304
1408	422	A	106-#2 ACS	7.37Y	122.9	0.01	3.11	22.27	12	149	70	91	0.01	0.0	3.430	0.017	0	0	0	35
OCR-421	1408	A	061-50-4H	7.37Y	122.9	0.00	3.11	22.27	45	149	70	91	0.00	0.0	3.430	0.000	0	0	0	35
421	OCR-421	A	106-#2 ACS	7.37Y	122.8	0.07	3.17	22.27	12	149	70	91	0.07	0.0	3.524	0.094	24	11	3	35
1409	421	A	106-#2 ACS	7.36Y	122.7	0.11	3.29	18.63	10	124	58	91	0.09	0.1	3.729	0.205	32	15	4	32
1410	1409	A	106-#2 ACS	7.36Y	122.7	0.02	3.31	13.77	8	92	43	91	0.01	0.0	3.774	0.045	14	6	6	28
1411	1410	A	106-#2 ACS	7.35Y	122.6	0.11	3.42	11.71	7	78	37	90	0.05	0.1	4.109	0.335	30	14	7	22
1412	1411	A	106-#2 ACS	7.35Y	122.5	0.07	3.49	7.26	4	48	23	90	0.02	0.0	4.657	0.548	48	23	15	15
706	422	ABC	098-#3/0 A	7.31Y	121.8	1.07	4.17	40.15	13	801	384	90	5.28	0.7	5.160	1.748	136	64	41	265
OCR-419	706	ABC	098-#3/0 A	7.28Y	121.4	0.42	4.58	33.33	11	660	314	90	1.73	0.3	5.959	0.799	83	39	15	224
419	OCR-419	A	007- 50-H	7.28Y	121.4	0.00	4.58	15.67	31	103	48	91	0.00	0.0	5.959	0.000	0	0	0	37
418	420	ABC	098-#3/0 A	7.27Y	121.2	0.15	4.73	15.67	7	103	48	91	0.06	0.1	6.659	0.700	103	48	37	37
OCR-417	418	ABC	098-#3/0 A	7.27Y	121.2	0.21	4.79	23.95	8	472	225	90	0.62	0.1	6.527	0.567	77	40	24	172
417	OCR-417	ABC	007- 50-H	7.27Y	121.2	0.00	4.79	19.97	40	395	185	91	0.00	0.0	6.527	0.000	0	0	0	148
416	417	ABC	098-#3/0 A	7.27Y	121.1	0.11	4.90	19.97	7	395	185	91	0.27	0.1	6.869	0.343	40	19	11	148
415	416	ABC	098-#3/0 A	7.26Y	121.0	0.06	4.96	5.83	2	115	54	91	0.03	0.0	8.183	1.314	115	54	43	43
521	415	ABC	098-#3/0 A	7.26Y	121.0	0.12	5.02	12.10	4	239	112	91	0.18	0.1	7.530	0.660	39	18	13	94
FUSE-519	521	ABC	098-#3/0 A	7.25Y	120.9	0.10	5.12	7.92	3	156	73	91	0.07	0.0	8.979	1.449	156	73	56	56
519	FUSE-519	A	083-30N FU	7.26Y	121.0	0.00	5.02	6.63	11	44	20	91	0.00	0.0	7.530	0.000	0	0	0	25
OCR-4134	418	ABC	098-#3/0 A	7.27Y	121.2	0.00	4.79	0.00	0	0	0	0	0.00	0.0	6.601	0.074	0	0	0	0
4134	OCR-4134	B	051-140-63	7.49Y	124.9	0.00	1.10	0.00	0	0	0	0	0.00	0.0	1.006	0.000	0	0	0	0
OCR-526	488	A	010- 50-L	7.49Y	124.9	0.00	1.10	23.97	48	163	76	91	0.00	0.0	1.006	0.000	0	0	0	71
526	OCR-526	A	117-#6 A-C	7.46Y	124.4	0.55	1.64	23.97	17	163	76	91	0.45							

Balanced Voltage Drop Report
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Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Units Displayed In Volts -Base Voltage:120.0-					KVAR	PF	% Loss	% Loss	mi From Src	Length (mi)	Element			
							Accum Drop	Thru Amps	% Cap	Thru KW	Thru KVAR							Cons KW	Cons KVAR	On	Thru
1349	OCR-1349	B	106-#2 ACS	7.27Y	121.1	0.64	4.87	28.21	16	187	87	91	0.82	0.4	5.703	0.699	23	11	4	44	
1350	1349	B	106-#2 ACS	7.25Y	120.8	0.38	5.24	24.75	14	163	76	91	0.40	0.2	6.234	0.530	54	25	15	40	
1351	1350	B	106-#2 ACS	7.24Y	120.7	0.06	5.31	16.49	9	108	50	91	0.03	0.0	6.452	0.219	108	50	25	25	

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	8343	0	0	0	0	0	183		0.00	8526	Lowest Voltage =	119.37	on Element 487
KVAR	4005	0	0	0	0	0	177			4182	Max Accm VoltD =	6.63	on Element 487
											Max Elem VoltD =	3.73	on Element 394

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Balanced Voltage Drop Report
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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	
8810		ABC	SRC-8810-D	7.56Y	126.0	0.00	0.00	476.25	0	10547	2330	98	0.00	0.0	0.000	0.000	0	0	0	3042	
T-hunt	8810	ABC	Capacitor	7.56Y	126.0	0.00	0.00	476.25	0	10547	2330	98	0.00	0.0	0.000	0.000	0	0	0	3042	
Feeder NO. 2 Beginning with Node Element 8812																					
8812	T-hunt	ABC	Node	7.56Y	126.0	0.00	0.00	113.14	0	2473	684	96	0.00	0.0	0.000	0.000	0	0	0	886	
C	OCR-498	8812	ABC	007-50-H	7.56Y	126.0	0.00	0.00	113.14	226	2473	684	96	0.00	0.0	0.000	0.000	0	0	886 C	
498	OCR-498	ABC	098-#3/0 A	7.53Y	125.5	0.52	0.52	113.14	38	2473	684	96	8.33	0.3	0.303	0.303	24	9	6	886	
821	498	ABC	098-#3/0 A	7.49Y	124.8	0.70	1.22	95.86	32	2099	532	97	9.43	0.4	0.816	0.513	189	73	25	727	
OCR-634	821	B	011-70-L	7.49Y	124.8	0.00	1.22	27.31	39	191	74	93	0.00	0.0	0.816	0.000	0	0	0	95	
634	OCR-634	B	110-#4 ACS	7.46Y	124.4	0.41	1.63	27.31	20	191	74	93	0.32	0.2	1.995	1.180	115	44	45	95	
866	634	B	117-#6 A-C	7.45Y	124.2	0.14	1.77	10.87	8	76	29	93	0.05	0.1	2.561	0.566	76	29	50	50	
96	821	ABC	098-#3/0 A	7.42Y	123.6	1.16	2.38	77.94	26	1710	375	98	12.87	0.8	1.911	1.096	210	87	53	607	
OCR-95	96	ABC	012-100-L	7.42Y	123.6	0.00	2.38	37.57	38	779	303	93	0.00	0.0	1.911	0.000	0	0	0	329	
95	OCR-95	ABC	106-#2 ACS	7.37Y	122.8	0.80	3.18	37.57	21	779	303	93	4.55	0.6	2.750	0.838	87	34	15	329	
C	OCR-94	95	B	007-50-H	7.37Y	122.8	0.00	3.18	41.48	83	285	110	93	0.00	0.0	2.750	0.000	0	0	141 C	
94	OCR-94	B	118-#8 A-C	7.19Y	119.8	2.97	6.15	41.48	41	285	110	93	5.49	1.9	4.260	1.510	165	64	93	141	
832	94	B	118-#8 A-C	7.17Y	119.5	0.36	6.51	17.02	17	114	44	93	0.23	0.2	4.887	0.628	114	44	48	48	
C	OCR-93	95	A	007-50-H	7.37Y	122.8	0.00	3.18	38.16	76	262	103	93	0.00	0.0	2.750	0.000	0	0	107 C	
93	OCR-93	A	102-#1/0 A	7.32Y	121.9	0.90	4.08	38.16	17	262	103	93	1.33	0.5	3.838	1.089	84	32	21	107	
FUSE-829	93	A	083-30N FU	7.32Y	121.9	0.00	4.08	25.94	43	177	69	93	0.00	0.0	3.838	0.000	0	0	0	86	
829	FUSE-829	A	106-#2 ACS	7.27Y	121.1	0.79	4.86	25.94	14	177	69	93	0.80	0.5	5.093	1.255	101	39	22	86	
831	829	A	117-#6 A-C	7.24Y	120.6	0.50	5.36	11.14	8	76	29	93	0.19	0.3	6.999	1.906	75	29	64	64	
OCR-864	95	C	060-35-H	7.37Y	122.8	0.00	3.18	20.38	59	140	54	93	0.00	0.0	2.750	0.000	0	0	0	66	
864	OCR-864	C	110-#4 ACS	7.36Y	122.7	0.09	3.27	20.38	15	140	54	93	0.06	0.0	3.068	0.318	60	23	42	66	
865	864	C	110-#4 ACS	7.36Y	122.7	0.06	3.34	11.61	8	80	31	93	0.02	0.0	3.659	0.591	80	31	24	24	
OCR-92	96	ABC	011-70-L	7.42Y	123.6	0.00	2.38	31.85	46	708	-30	-100	0.00	0.0	1.911	0.000	0	0	0	225	
92	OCR-92	ABC	098-#3/0 A	7.39Y	123.2	0.40	2.78	31.85	11	708	-30	-100	2.40	0.3	3.230	1.319	139	63	47	225	
848	92	ABC	Capacitor	7.39Y	123.2	0.00	2.78	21.29	0	450	-141	-95	0.00	0.0	3.230	0.000	0	0	0	100	
849	848	ABC	098-#3/0 A	7.39Y	123.2	0.02	2.80	21.79	7	450	175	93	0.07	0.0	3.295	0.065	0	0	0	100	
P	4830	849	ABC	098-#3/0 A	7.39Y	123.2	0.00	2.80	0.00	0	0	0	0.00	0.0	3.455	0.161	0	0	0	0 P	
850	849	ABC	098-#3/0 A	7.37Y	122.9	0.28	3.09	21.79	7	450	175	93	0.79	0.2	4.159	0.864	65	25	11	100	
FUSE-90	850	ABC	082-25N FU	7.37Y	122.9	0.00	3.09	18.62	37	384	149	93	0.00	0.0	4.159	0.000	0	0	0	89	
90	FUSE-90	ABC	098-#3/0 A	7.36Y	122.7	0.21	3.30	18.62	6	384	149	93	0.47	0.1	5.020	0.861	139	54	25	89	
OCR-89	90	B	006-35-H	7.36Y	122.7	0.00	3.30	16.61	47	114	44	93	0.00	0.0	5.020	0.000	0	0	0	35	
89	OCR-89	B	118-#8 A-C	7.26Y	121.0	1.75	5.04	16.61	17	114	44	93	1.07	0.9	8.147	3.127	113	44	35	35	
88	90	ABC	098-#3/0 A	7.36Y	122.6	0.07	3.37	6.33	2	131	50	93	0.04	0.0	6.478	1.458	130	50	29	29	
OCR-565	92	A	007-50-H	7.39Y	123.2	0.00	2.78	16.81	34	116	45	93	0.00	0.0	3.230	0.000	0	0	0	78	
565	OCR-565	A	117-#6 A-C	7.38Y	123.0	0.22	3.00	16.81	12	116	45	93	0.13	0.1	3.782	0.552	116	45	78	78	
OCR-820	498	ABC	011-70-L	7.53Y	125.5	0.00	0.52	16.22	23	342	133	93	0.00	0.0	0.303	0.000	0	0	0	153	
820	OCR-820	ABC	110-#4 ACS	7.52Y	125.3	0.17	0.69	16.22	12	342	133	93	0.27	0.1	1.559	1.256	143	55	87	153	
637	820	ABC	110-#4 ACS	7.52Y	125.3	0.05	0.74	9.43	7	198	77	93	0.04	0.0	2.587	1.028	198	77	66	66	
Feeder NO. 4 Beginning with Node Element 8814																					
8814	T-hunt	ABC	Node	7.56Y	126.0	0.00	0.00	26.72	0	588	148	97	0.00	0.0	0.000	0.000	0	0	0	148	
791	8814	ABC	098-#3/0 A	7.54Y	125.7	0.31	0.31	26.72	9	588	148	97	1.14	0.2	0.804	0.804	58	14	5	148	
75	791	ABC	098-#3/0 A	7.53Y	125.5	0.23	0.54	23.86	8	524	131	97	0.77	0.1	1.499	0.696	64	16	10	142	
OCR-647	75	A	006-35-H	7.53Y	125.5	0.00	0.54	10.14	29	74	18	97	0.00	0.0	1.499	0.000	0	0	0	34	
647	OCR-647	A	118-#8 A-C	7.49Y	124.8	0.71	1.25	10.14	10	74	18	97	0.27	0.4	3.606	2.107	74	18	34	34	
646	75	ABC	098-#3/0 A	7.51Y	125.2	0.25	0.79	17.56	6	385	96	97	0.62	0.2	2.527	1.027	49	12	6	98	
OCR-645	646	C	010-50-L	7.51Y	125.2	0.00	0.79	27.35	55	199	50	97	0.00	0.0	2.527	0.000	0	0	0	66	
645	OCR-645	C	110-#4 ACS	7.50Y	124.9	0.28	1.07	27.35	20	199	50	97	0.21	0.1	3.823	1.297	199	49	66	66	
644	646	ABC	098-#3/0 A	7.51Y	125.2	0.05	0.84	6.23	2	136	34	97	0.03	0.0	3.509	0.982	136	34	26	26	
4125	791	ABC	098-#3/0 A	7.54Y	125.7	0.00	0.31	0.20	0	4	1	97	0.00	0.0	0.843	0.040	4	1	1	1	
Feeder NO. 3 Beginning with Node Element 8813																					
8813	T-hunt	ABC	Node	7.56Y	126.0	0.00	0.00	195.72	0	4287	1153	97	0.00	0.0	0.000	0.000	0	0	0	1214	
C	792	8813	ABC	098-#3/0 A	7.43Y	123.9	2.13	2.13	195.72	65	4287	1153	97	59.45	1.4	0.725	0.725	66	14	14	1214 C
C	130	792	ABC	098-#3/0 A	7.26Y	121.1	2.82	4.95	192.72	64	4161	1072	97	77.37	1.9	1.729	1.005	223	48	58	1200 C
OCR-129	130	B	049-100-63	7.26Y	121.1	0.00	4.95	13.93	14	99	21	98	0.00	0.0	1.729	0.000	0	0	0	65	
129	OCR-129	B	106-#2 ACS	7.22Y	120.4	0.66	5.61	13.93	8	99	21	98	0.32	0.3	4.739	3.009	99	21	65	65	
C	128	130	ABC	098-#3/0 A	7.12Y	118.7	2.34	7.28	177.69	59	3762	916	97	60.15	1.6	2.626	0.896	90	19	16	1077 C
H	903	128	ABC	Regulator	7.56Y	126.0	-7.28	-0.00	173.39	79	3611	829	97	0.00	0.0	2.626	0.000	0	0	0	1061 H
C	4110	903	ABC	098-#3/0 A	7.53Y	125.6	0.45	0.45	163.37	54	3611	829	97	10.70	0.3	2.812	0.186	27	6	4	1061 C
C																					

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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	
P 793	120	A	117-#6 A-C	7.23Y	120.6	0.00	5.42	0.00	0	0	0	0	0.00	0.0	7.401	0.960	0	0	0	0 P
547	120	A	106-#2 ACS	7.18Y	119.6	0.94	6.36	20.71	12	146	32	98	0.77	0.5	8.665	2.224	104	22	31	92
FUSE-546	547	A	085-50N FU	7.18Y	119.6	0.00	6.36	5.93	6	42	9	98	0.00	0.0	8.665	0.000	0	0	0	61
546	FUSE-546	A	106-#2 ACS	7.17Y	119.4	0.19	6.56	5.93	3	42	9	98	0.04	0.1	10.748	2.084	42	9	61	61
119	121	ABC	098-#3/0 A	7.21Y	120.2	1.59	5.82	89.28	30	1932	314	99	21.39	1.1	6.201	1.328	157	33	36	586
C OCR-118	119	C	006-35-H	7.21Y	120.2	0.00	5.82	41.98	120	296	66	98	0.00	0.0	6.201	0.000	0	0	0	109 C
118	OCR-118	C	106-#2 ACS	7.17Y	119.6	0.60	6.42	41.98	23	296	66	98	1.23	0.4	6.703	0.502	58	12	13	109
4921	118	C	106-#2 ACS	7.14Y	118.9	0.66	7.07	33.73	19	236	52	98	1.11	0.5	7.348	0.645	23	5	4	96
4922	4921	C	106-#2 ACS	7.12Y	118.7	0.25	7.32	30.47	17	212	46	98	0.38	0.2	7.612	0.264	12	3	3	92
L 661	4922	C	106-#2 ACS	7.07Y	117.8	0.91	8.23	28.77	16	200	44	98	1.28	0.6	8.723	1.112	38	8	11	89 L
L OCR-660	661	C	051-140-63	7.07Y	117.8	0.00	8.23	15.21	11	105	22	98	0.00	0.0	8.723	0.000	0	0	0	53 L
L 660	OCR-660	C	106-#2 ACS	7.06Y	117.6	0.12	8.36	15.21	8	105	22	98	0.08	0.1	9.118	0.395	73	16	36	53 L
L OCR-4924	660	C	051-140-63	7.06Y	117.6	0.00	8.36	4.62	3	32	7	98	0.00	0.0	9.118	0.000	0	0	0	17 L
L 4924	OCR-4924	C	106-#2 ACS	7.06Y	117.6	0.05	8.40	4.62	3	32	7	98	0.01	0.0	9.744	0.626	32	7	17	17 L
L OCR-4923	661	C	051-140-63	7.07Y	117.8	0.00	8.23	8.01	6	55	12	98	0.00	0.0	8.723	0.000	0	0	0	25 L
L 4923	OCR-4923	C	110-#4 ACS	7.06Y	117.7	0.04	8.27	8.01	6	55	12	98	0.01	0.0	9.325	0.602	55	12	25	25 L
OCR-116	119	B	007-50-H	7.21Y	120.2	0.00	5.82	34.22	68	241	53	98	0.00	0.0	6.201	0.000	0	0	0	94
116	OCR-116	B	106-#2 ACS	7.14Y	118.9	1.24	7.05	34.22	19	241	53	98	1.90	0.8	7.633	1.432	96	21	32	94
802	116	B	110-#4 ACS	7.13Y	118.8	0.12	7.17	13.46	10	94	20	98	0.05	0.0	8.811	1.178	94	20	53	53
801	116	B	106-#2 ACS	7.13Y	118.9	0.06	7.11	6.98	4	49	10	98	0.01	0.0	8.167	0.534	49	10	9	9
115	119	ABC	098-#3/0 A	7.16Y	119.4	0.82	6.63	50.94	17	1096	112	99	6.37	0.6	7.543	1.342	205	44	47	310
113	115	ABC	098-#3/0 A	7.15Y	119.1	0.25	6.88	37.72	13	809	45	100	1.57	0.2	8.072	0.530	40	9	7	240
900	113	ABC	Capacitor	7.15Y	119.1	0.00	6.88	35.85	0	768	35	100	0.00	0.0	8.072	0.000	0	0	0	233
803	900	ABC	098-#3/0 A	7.13Y	118.8	0.28	7.16	36.65	12	768	167	98	1.50	0.2	8.620	0.548	56	12	11	233
231	803	ABC	098-#3/0 A	7.13Y	118.8	0.06	7.22	6.58	2	138	29	98	0.04	0.0	9.909	1.289	138	29	25	25
OCR-114	803	A	006-35-H	7.13Y	118.8	0.00	7.16	18.57	53	129	28	98	0.00	0.0	8.620	0.000	0	0	0	39
L 114	OCR-114	A	106-#2 ACS	7.08Y	118.0	0.89	8.05	18.57	10	129	28	98	0.57	0.4	11.640	3.019	129	27	39	39 L
L 4094	114	A	106-#2 ACS	7.08Y	118.0	0.00	8.05	0.00	0	0	0	0	0.00	0.0	11.952	0.312	0	0	0	0 L
4036	803	ABC	098-#3/0 A	7.12Y	118.7	0.09	7.26	21.18	7	443	96	98	0.29	0.1	8.923	0.303	3	1	1	158
OCR-112	4036	ABC	007-50-H	7.12Y	118.7	0.00	7.26	21.06	42	440	95	98	0.00	0.0	8.923	0.000	0	0	0	157
112	OCR-112	ABC	098-#3/0 A	7.10Y	118.4	0.33	7.59	21.06	7	440	95	98	0.94	0.2	10.178	1.255	122	26	24	157
804	112	ABC	098-#3/0 A	7.09Y	118.2	0.22	7.81	15.21	5	317	68	98	0.46	0.1	11.292	1.114	68	14	11	133
OCR-662	804	C	049-100-63	7.09Y	118.2	0.00	7.81	14.45	14	100	21	98	0.00	0.0	11.292	0.000	0	0	0	56
L 662	OCR-662	C	110-#4 ACS	7.08Y	118.0	0.19	8.00	14.45	10	100	21	98	0.08	0.1	13.030	1.738	100	21	56	56 L
OCR-568	804	B	046-50-63	7.09Y	118.2	0.00	7.81	6.33	13	44	9	98	0.00	0.0	11.292	0.000	0	0	0	14
L 568	OCR-568	B	118-#8 A-C	7.07Y	117.8	0.43	8.24	6.33	6	44	9	98	0.10	0.2	13.361	2.069	44	9	14	14 L
OCR-1804	804	C	049-100-63	7.09Y	118.2	0.00	7.81	15.12	15	105	22	98	0.00	0.0	11.292	0.000	0	0	0	52
1804	OCR-1804	C	110-#4 ACS	7.09Y	118.1	0.10	7.91	15.12	11	105	22	98	0.04	0.0	12.163	0.872	105	22	52	52
FUSE-899	115	B	082-25N FU	7.16Y	119.4	0.00	6.63	10.81	22	76	16	98	0.00	0.0	7.543	0.000	0	0	0	23
899	FUSE-899	B	106-#2 ACS	7.14Y	119.0	0.35	6.99	10.81	6	76	16	98	0.13	0.2	9.621	2.079	76	16	23	23
OCR-654	119	A	049-100-63	7.21Y	120.2	0.00	5.82	17.04	17	120	26	98	0.00	0.0	6.201	0.000	0	0	0	37
654	OCR-654	A	106-#2 ACS	7.19Y	119.8	0.40	6.22	17.04	9	120	26	98	0.31	0.3	7.159	0.958	52	11	17	37
OCR-794	654	A	051-140-63	7.19Y	119.8	0.00	6.22	9.68	7	68	15	98	0.00	0.0	7.159	0.000	0	0	0	20
794	OCR-794	A	106-#2 ACS	7.17Y	119.5	0.32	6.54	9.68	5	68	15	98	0.11	0.2	9.270	2.112	68	14	20	20
P 4126	792	ABC	098-#3/0 A	7.43Y	123.9	0.00	2.13	0.00	0	0	0	0	0.00	0.0	0.727	0.003	0	0	0	0 P
Feeder NO. 1 Beginning with Node Element 8811																				
8811	T-hunt	ABC	Node	7.56Y	126.0	0.00	0.00	147.03	0	3200	939	96	0.00	0.0	0.000	0.000	0	0	0	794
556	8811	ABC	098-#3/0 A	7.37Y	122.8	3.23	3.23	147.03	49	3200	939	96	64.79	2.0	1.535	1.535	364	151	82	794
OCR-554	556	C	049-100-63	7.37Y	122.8	0.00	3.23	15.23	15	105	39	94	0.00	0.0	1.535	0.000	0	0	0	36
554	OCR-554	C	110-#4 ACS	7.36Y	122.7	0.10	3.33	15.23	11	105	39	94	0.04	0.0	2.301	0.766	105	39	36	36
OCR-550	556	C	005-25-H	7.37Y	122.8	0.00	3.23	15.76	63	109	40	94	0.00	0.0	1.535	0.000	0	0	0	75
550	OCR-550	C	110-#4 ACS	7.36Y	122.7	0.07	3.30	15.76	11	109	40	94	0.02	0.0	2.003	0.468	109	40	75	75
P 4127	556	ABC	098-#3/0 A	7.37Y	122.8	0.00	3.23	0.00	0	0	0	0	0.00	0.0	1.539	0.004	0	0	0	0 P
4050	556	ABC	098-#3/0 A	7.24Y	120.6	2.17	5.40	119.20	40	2557	635	97	37.07	1.5	2.785	1.250	110	41	35	601
FUSE-548	4050	ABC	081-20N FU	7.24Y	120.6	0.00	5.40	15.76	39	257	226	75	0.00	0.0	2.785	0.000	0	0	0	12
P 548	FUSE-548	ABC	110-#4 ACS	7.23Y	120.5	0.07	5.46	15.76	11	257	226	75	0.06	0.0	3.430	0.644	257	226	12	12 P
FUSE-500	4050	A	081-20N FU	7.24Y	120.6	0.00	5.40	11.54	29	78	29	94	0.00	0.0	2.785	0.000	0	0	0	32
500	FUSE-500	A	110-#4 ACS	7.23Y	120.5	0.10	5.50	11.54	8	78	29	94	0.03	0.0	3.747	0.962	78	29	32	32
4051	4050	ABC	Regulator	7.56Y	126.0	-5.40	0.00	96.53	44	2074	297	99	0.00	0.0	2.785	0.000	0	0	0	522
4052	4051	ABC	098-#3/0 A	7.55Y	125.9	0.10	0.10	92.40	31	2074	297	99	1.49	0.1	2.866	0.080	0	0	0	522
C OCR-549	4052	ABC	006-35-H	7.55Y	125.9	0.00	0.10	92.40	264	2073	295	99	0.00	0.0	2.866	0.000	0	0	0	522 C
549	OCR-549	ABC	098-#3/0 A	7.51Y	125.1	0.76	0.86	92.40	31	2073	295	99	10.89	0.5	3.475	0.609	80	30	15	522
FUSE-499	549	B	082-25N FU	7.51Y	125.1	0.00	0.86	14.34	29	101	38	94	0.00	0.0	3.475	0.000	0	0	0	28
499	FUSE-499	B	110-#4 ACS	7.50Y	125.0	0.14	1.00	14.34	10	101	38	94	0.05	0.0	4.531	1.056	101	37	28	28
OCR-109	549	A	011-70-L	7.51Y	125.1	0.00	0.86	46.72	67	328	126	93	0.00	0.0	3.475	0.000	0	0	0	93
109	OCR-109	A	110-#4 ACS	7.43Y	123.8	2.38	2.25	46.72	33	328	126	93	1.96	0.6	5.612	2.137	149	55	35	93
FUSE-110	109	A	082-25N FU																	

Balanced Voltage Drop Report
Source: 8810

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.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	kVAr Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru	
L 97	99	A	106-#2 ACS	7.05Y	117.5	0.21	8.52	14.92	8	99	37	94	0.10	0.1	14.194	0.841	99	37	16	16	L
OCR-4801	106	A	005- 25-H	7.25Y	120.8	0.00	5.22	3.29	13	22	8	94	0.00	0.0	9.504	0.000	0	0	0	4	
4801	OCR-4801	A	118-#8 A-C	7.25Y	120.8	0.01	5.24	3.29	3	22	8	94	0.00	0.0	9.638	0.134	22	8	4	4	
FUSE-545	108	A	080-15W FU	7.47Y	124.4	0.00	1.56	13.13	44	92	34	94	0.00	0.0	4.325	0.000	0	0	0	54	
545	FUSE-545	A	110-#4 ACS	7.46Y	124.3	0.13	1.69	13.13	9	92	34	94	0.04	0.0	5.454	1.128	92	34	54	54	
P 4053	4050	B	117-#6 A-C	7.24Y	120.6	0.00	5.40	0.00	0	0	0	0	0.00	0.0	2.987	0.202	0	0	0	0	P

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

KW	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
10004	0	0	0	0	0	0	543	0.00	10547	Lowest Voltage = 117.48 on Element 97		
3338	0	-1601	0	0	0	0	593		2330	Max Accum VoltD = 8.52 on Element 97		
										Max Elem VoltD = 3.23 on Element 556		

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UNION STAR SUMMER 2008

Balanced Voltage Drop Report
Source: 8300

Detail

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.WM\
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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	Thru Cap	KW	KVAR	PF	Loss	Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
8300			ABC SRC-8300-D	7.56Y	126.0	0.00	0.00	146.21	0	3050	1301	92	0.00	0.0	0.000	0.000	0	0	0	934
----- Feeder NO. 3		Beginning with Node Element 8303																		
8303	8300		ABC Mode	7.56Y	126.0	0.00	0.00	30.63	0	642	266	92	0.00	0.0	0.000	0.000	0	0	0	210
367	8303		ABC 098-#3/0 A	7.49Y	124.8	1.23	1.23	30.63	10	642	266	92	4.80	0.7	2.634	2.634	83	34	17	210
368	367		ABC 098-#3/0 A	7.45Y	124.1	0.64	1.87	26.65	9	554	227	93	2.21	0.4	4.152	1.517	36	14	6	193
371	368		ABC 098-#3/0 A	7.42Y	123.6	0.54	2.40	21.17	7	438	178	93	1.39	0.3	5.921	1.770	106	43	25	146
4019	371		A 118-#8 A-C	7.38Y	123.1	0.54	2.94	22.03	22	151	61	93	0.60	0.4	6.339	0.418	39	16	6	59
OCR-374	4019		A 005-25-H	7.38Y	123.1	0.00	2.94	16.39	66	112	46	93	0.00	0.0	6.339	0.000	0	0	0	53
374	OCR-374		A 106-#2 ACS	7.32Y	122.0	1.02	3.97	16.39	9	112	46	93	0.54	0.5	10.018	3.678	112	45	53	53
4018	371		B 117-#6 A-C	7.41Y	123.4	0.18	2.58	11.81	8	81	33	93	0.10	0.1	6.298	0.377	26	10	3	27
OCR-372	4018		B 005-25-H	7.41Y	123.4	0.00	2.58	8.06	32	55	22	93	0.00	0.0	6.298	0.000	0	0	0	24
372	OCR-372		B 117-#6 A-C	7.39Y	123.1	0.30	2.88	8.06	6	55	22	93	0.09	0.2	7.905	1.607	55	22	24	24
375	371		B 117-#6 A-C	7.38Y	122.9	0.65	3.05	14.29	10	98	40	93	0.33	0.3	7.868	1.947	98	40	35	35
OCR-370	368		C 060-35-4H	7.45Y	124.1	0.00	1.87	11.25	32	78	31	93	0.00	0.0	4.152	0.000	0	0	0	41
370	OCR-370		C 110-#4 ACS	7.43Y	123.8	0.31	2.17	11.25	8	78	31	93	0.08	0.1	7.114	2.963	78	31	41	41
----- Feeder NO. 2		Beginning with Node Element 8302																		
8302	8300		ABC Mode	7.56Y	126.0	0.00	0.00	51.75	0	1078	463	92	0.00	0.0	0.000	0.000	0	0	0	304
275	8302		ABC 098-#3/0 A	7.54Y	125.6	0.40	0.40	51.75	17	1078	463	92	2.68	0.2	0.477	0.477	45	18	13	304
274	275		A 118-#8 A-C	7.53Y	125.5	0.05	0.45	1.66	2	12	5	92	0.00	0.0	1.434	0.957	12	5	5	5
273	275		ABC 098-#3/0 A	7.48Y	124.6	1.01	1.41	49.05	16	1019	437	92	6.29	0.6	1.814	1.337	125	50	29	286
OCR-513	273		A 006-35-H	7.48Y	124.6	0.00	1.41	13.26	38	92	37	93	0.00	0.0	1.814	0.000	0	0	0	36
513	OCR-513		A 117-#6 A-C	7.39Y	123.2	1.39	2.80	13.26	9	92	37	93	0.82	0.9	4.716	2.902	42	17	19	36
285	513		A 118-#8 A-C	7.36Y	122.6	0.58	3.38	7.20	7	49	20	93	0.15	0.3	7.105	2.388	49	20	17	17
493	273		ABC 098-#3/0 A	7.39Y	123.1	1.47	2.87	38.66	13	796	343	92	7.23	0.9	4.254	2.439	83	34	19	221
4068	493		ABC 098-#3/0 A	7.38Y	123.0	0.09	2.97	34.61	12	706	301	92	0.43	0.1	4.419	0.166	6	2	2	202
P 4067	4068		ABC 098-#3/0 A	7.38Y	123.0	0.00	2.97	0.00	0	0	0	0	0.00	0.0	4.482	0.063	0	0	0	0
OCR-272	4068		ABC 007-50-H	7.38Y	123.0	0.00	2.97	34.32	69	699	298	92	0.00	0.0	4.419	0.000	0	0	0	200
272	OCR-272		ABC 098-#3/0 A	7.35Y	122.5	0.50	3.47	34.32	11	699	298	92	2.24	0.3	5.320	0.901	21	8	5	200
FUSE-271	272		ABC 083-30N FU	7.35Y	122.5	0.00	3.47	16.04	27	328	133	93	0.00	0.0	5.320	0.000	0	0	0	97
271	FUSE-271		ABC 098-#3/0 A	7.33Y	122.1	0.43	3.90	16.04	5	328	133	93	0.85	0.3	7.191	1.872	75	30	20	97
270	271		ABC 098-#3/0 A	7.32Y	122.0	0.11	4.01	8.75	3	178	72	93	0.11	0.1	8.208	1.016	79	32	16	50
269	270		C 117-#6 A-C	7.32Y	122.0	0.03	4.04	0.56	0	4	2	89	0.00	0.0	10.201	1.993	4	2	4	4
4928	270		A 106-#2 ACS	7.32Y	122.0	0.02	4.03	14.01	8	95	39	93	0.02	0.0	8.256	0.049	0	0	0	30
OCR-268	4928		A 005-25-H	7.32Y	122.0	0.00	4.03	14.01	56	95	39	93	0.00	0.0	8.256	0.000	0	0	0	30
268	OCR-268		A 106-#2 ACS	7.27Y	121.2	0.77	4.81	14.01	8	95	39	93	0.35	0.4	11.500	3.244	95	38	30	30
782	271		A 118-#8 A-C	7.28Y	121.3	0.76	4.66	10.86	11	74	30	93	0.31	0.4	9.272	2.081	73	30	27	27
OCR-896	272		ABC 011-70-L	7.35Y	122.5	0.00	3.47	1.09	2	22	9	93	0.00	0.0	5.320	0.000	0	0	0	4
896	OCR-896		ABC 098-#3/0 A	7.35Y	122.5	0.00	3.47	1.09	0	22	9	93	0.00	0.0	5.850	0.531	22	9	4	4
783	272		ABC 098-#3/0 A	7.34Y	122.3	0.25	3.72	16.16	5	326	145	91	0.52	0.2	6.329	1.009	39	16	8	94
267	783		ABC 098-#3/0 A	7.32Y	121.9	0.33	4.05	10.40	3	208	96	91	0.35	0.2	9.207	2.878	137	68	43	60
384	267		ABC 116-4-ACWC	7.31Y	121.9	0.03	4.08	1.96	1	40	16	93	0.01	0.0	10.518	1.311	40	16	9	9
383	267		ABC 116-4-ACWC	7.32Y	121.9	0.01	4.06	1.49	1	30	12	93	0.00	0.0	9.638	0.430	30	12	8	8
FUSE-784	783		C 083-30N FU	7.34Y	122.3	0.00	3.72	11.51	19	78	32	93	0.00	0.0	6.329	0.000	0	0	0	26
784	FUSE-784		C 117-#6 A-C	7.32Y	122.0	0.31	4.03	11.51	8	78	32	93	0.12	0.2	7.474	1.145	78	32	26	26
----- Feeder NO. 1		Beginning with Node Element 8301																		
8301	8300		ABC Mode	7.56Y	126.0	0.00	0.00	63.84	0	1330	573	92	0.00	0.0	0.000	0.000	0	0	0	420
266	8301		ABC 098-#3/0 A	7.50Y	125.0	1.01	1.01	63.84	21	1330	573	92	8.32	0.6	0.993	0.993	85	34	25	420
C OCR-259	266		ABC 006-35-H	7.50Y	125.0	0.00	1.01	59.79	171	1237	529	92	0.00	0.0	0.993	0.000	0	0	0	395
259	OCR-259		ABC 098-#3/0 A	7.33Y	122.2	2.78	3.79	59.79	20	1237	529	92	21.35	1.7	3.989	2.996	117	57	35	395
1259	259		ABC 098-#3/0 A	7.33Y	122.1	0.06	3.85	31.66	11	645	264	93	0.26	0.0	4.108	0.119	0	0	0	234
OCR-265	1259		B 010-50-L	7.33Y	122.1	0.00	3.85	29.90	60	203	83	93	0.00	0.0	4.108	0.000	0	0	0	75
265	OCR-265		B 106-#2 ACS	7.23Y	120.5	1.64	5.50	29.90	17	203	83	93	2.07	1.0	6.106	1.998	77	31	29	75
FUSE-264	265		B 083-30N FU	7.23Y	120.5	0.00	5.50	6.87	11	46	19	92	0.00	0.0	6.106	0.000	0	0	0	19
264	FUSE-264		B 106-#2 ACS	7.22Y	120.3	0.17	5.66	6.87	4	46	19	92	0.04	0.1	7.520	1.414	46	19	19	19
OCR-263	265		B 049-100-63	7.23Y	120.5	0.00	5.50	11.60	12	78	32	93	0.00	0.0	6.106	0.000	0	0	0	27
263	OCR-263		B 106-#2 ACS	7.19Y	119.8	0.67	6.17	11.60	6	78	32	93	0.31	0.4	8.442	2.336	42	17	14	27
OCR-261	263		B 051-140-63	7.19Y	119.8	0.00	6.17	5.30	4	35	14	93	0.00	0.0	8.442	0.000	0	0	0	13
261	OCR-261		B 118-#8 A-C	7.18Y	119.6	0.23	6.40	5.30	5	35	14	93	0.05	0.1	9.760	1.317	35	14	13	13
OCR-260	1259		ABC 007-50-H	7.33Y	122.1	0.00	3.85	21.69	43	441	181	93	0.00	0.0	4.108	0.000	0	0	0	159
260	OCR-260		ABC 098-#3/0 A	7.30Y	121.7	0.48	4.34	21.69	7	441	181	93	1.34	0.3	5.556	1.448	49	20	9	159
165	260		ABC 098-#3/0 A	7.26																

Balanced Voltage Drop Report
Source: 8300

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.WM\
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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total	
KW	2980	0	0	0	0	0	70	0.00	3050	Lowest Voltage = 119.60 on Element 261
KVAR	1226	0	0	0	0	0	76		1301	Max Accm VoltD = 6.40 on Element 261 Max Elem VoltD = 2.76 on Element 259

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CLOVERPORT WINTER CASE

Balanced Voltage Drop Report
Source: 8200

Detail

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		Units Displayed In Volts														Element				
		-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)	RW	KVAR	Cons On	Cons Thru
8200	Feeder NO. 5	ABC	SRC-8200-D	7.56Y	126.0	0.00	0.00	176.96	0	3857	1110	96	0.00	0.0	0.000	0.000	0	0	0	1140
Beginning with Node Element 8205																				
8205	8200	ABC	Node	7.56Y	126.0	0.00	0.00	36.75	0	800	234	96	0.00	0.0	0.000	0.000	0	0	0	294
144	8205	ABC	098-#3/0 A	7.55Y	125.8	0.20	0.20	36.75	12	800	234	96	1.02	0.1	0.381	0.381	89	14	26	294
4821	144	ABC	098-#3/0 A	7.54Y	125.7	0.07	0.27	32.80	11	710	218	96	0.29	0.0	0.515	0.134	59	10	22	268
4822	4821	ABC	098-#3/0 A	7.54Y	125.7	0.05	0.32	30.18	10	650	208	95	0.23	0.0	0.634	0.119	32	5	5	246
4824	4822	ABC	098-#3/0 A	7.54Y	125.6	0.06	0.39	28.77	10	618	203	95	0.24	0.0	0.779	0.145	68	11	24	241
770	4824	ABC	098-#3/0 A	7.52Y	125.4	0.25	0.64	25.74	9	550	191	94	0.64	0.1	1.849	1.070	450	174	174	217
P 4953	770	ABC	098-#3/0 A	7.52Y	125.4	0.00	0.64	0.00	0	0	0	0	0.00	0.0	1.881	0.032	0	0	0	0 P
OCR-1772	770	C	049-100-63	7.52Y	125.4	0.00	0.64	5.45	5	40	7	99	0.00	0.0	1.849	0.000	0	0	0	13
1772	OCR-1772	C	106-#2 ACS	7.52Y	125.3	0.01	0.65	5.45	3	40	7	99	0.00	0.0	2.002	0.153	40	7	13	13
OCR-1771	770	A	049-100-63	7.52Y	125.4	0.00	0.64	7.90	8	59	10	99	0.00	0.0	1.849	0.000	0	0	0	30
1771	OCR-1771	A	106-#2 ACS	7.52Y	125.3	0.03	0.66	7.90	4	59	10	99	0.01	0.0	2.066	0.217	59	9	30	30
P 4124	144	ABC	098-#3/0 A	7.55Y	125.8	0.00	0.20	0.00	0	0	0	0	0.00	0.0	0.397	0.016	0	0	0	0 P
Feeder NO. 4 Beginning with Node Element 8204																				
8204	8200	ABC	Node	7.56Y	126.0	0.00	0.00	18.97	0	400	158	93	0.00	0.0	0.000	0.000	0	0	0	267
142	8204	ABC	098-#3/0 A	7.54Y	125.7	0.26	0.26	18.97	6	400	158	93	0.58	0.1	1.022	1.022	138	55	90	267
137	142	ABC	098-#3/0 A	7.54Y	125.7	0.09	0.35	11.80	4	248	100	93	0.13	0.1	1.534	0.532	57	19	75	152
4956	137	ABC	098-#3/0 A	7.54Y	125.6	0.02	0.37	8.73	3	181	79	92	0.02	0.0	1.676	0.142	12	3	20	59
4957	4956	ABC	098-#3/0 A	7.54Y	125.6	0.01	0.38	8.19	3	169	76	91	0.01	0.0	1.865	0.188	169	76	39	39
4955	137	ABC	098-#3/0 A	7.54Y	125.7	0.00	0.35	0.45	0	10	2	98	0.00	0.0	1.557	0.023	0	0	0	18
4954	4955	ABC	098-#3/0 A	7.54Y	125.7	0.00	0.35	0.45	0	10	2	98	0.00	0.0	1.705	0.148	10	2	18	18
P 4120	142	ABC	098-#3/0 A	7.54Y	125.7	0.00	0.26	0.00	0	0	0	0	0.00	0.0	1.026	0.004	0	0	0	0 P
OCR-771	142	C	049-100-63	7.54Y	125.7	0.00	0.26	1.92	2	14	3	98	0.00	0.0	1.022	0.000	0	0	0	25
771	OCR-771	C	117-#6 A-C	7.54Y	125.7	0.01	0.27	1.92	1	14	3	98	0.00	0.0	1.255	0.232	14	3	25	25
Feeder NO. 3 Beginning with Node Element 8203																				
8203	8200	ABC	Node	7.56Y	126.0	0.00	0.00	32.17	0	700	205	96	0.00	0.0	0.000	0.000	0	0	0	332
141	8203	ABC	098-#3/0 A	7.52Y	125.4	0.61	0.61	32.17	11	700	205	96	2.64	0.4	1.300	1.300	87	17	58	332
OCR-139	141	ABC	007- 50-B	7.52Y	125.4	0.00	0.61	19.24	38	409	147	94	0.00	0.0	1.300	0.000	0	0	0	179
139	OCR-139	ABC	098-#3/0 A	7.51Y	125.1	0.25	0.86	19.24	6	409	147	94	0.59	0.1	2.311	1.010	118	90	15	179
136	139	ABC	098-#3/0 A	7.48Y	124.6	0.52	1.37	10.88	4	241	46	98	0.74	0.3	6.422	4.111	94	18	57	129
134	136	ABC	098-#3/0 A	7.47Y	124.5	0.08	1.46	5.85	2	129	25	98	0.07	0.1	7.500	1.078	21	4	9	60
OCR-132	134	C	006- 35-H	7.47Y	124.5	0.00	1.46	0.80	2	6	1	99	0.00	0.0	7.500	0.000	0	0	0	9
132	OCR-132	C	117-#6 A-C	7.47Y	124.5	0.04	1.50	0.80	1	6	1	99	0.00	0.0	9.813	2.313	6	1	9	9
OCR-131	134	A	006- 35-H	7.47Y	124.5	0.00	1.46	13.94	40	102	20	98	0.00	0.0	7.500	0.000	0	0	0	42
131	OCR-131	A	117-#6 A-C	7.41Y	123.6	0.98	2.44	13.94	10	102	20	98	0.59	0.6	9.821	2.321	66	12	31	42
4925	131	A	117-#6 A-C	7.41Y	123.6	0.01	2.45	1.90	1	14	3	98	0.00	0.0	10.020	0.200	14	3	4	4
OCR-153	131	A	049-100-63	7.41Y	123.6	0.00	2.44	3.07	3	22	4	98	0.00	0.0	9.821	0.000	0	0	0	7
153	OCR-153	A	117-#6 A-C	7.40Y	123.4	0.15	2.59	3.07	2	22	4	98	0.02	0.1	11.994	2.173	22	4	7	7
FUSE-764	136	B	083-30N FU	7.48Y	124.6	0.00	1.37	2.31	4	17	3	98	0.00	0.0	6.422	0.000	0	0	0	12
764	FUSE-764	B	106-#2 ACS	7.48Y	124.6	0.03	1.40	2.31	1	17	3	98	0.00	0.0	7.219	0.797	17	3	12	12
4023	139	A	118-#8 A-C	7.51Y	125.1	0.05	0.91	6.72	7	50	9	98	0.02	0.0	2.435	0.125	7	1	4	35
OCR-138	4023	A	006- 35-H	7.51Y	125.1	0.00	0.91	5.75	16	42	8	98	0.00	0.0	2.435	0.000	0	0	0	31
138	OCR-138	A	106-#2 ACS	7.49Y	124.9	0.24	1.15	5.75	3	42	8	98	0.05	0.1	5.124	2.688	42	8	31	31
4906	141	ABC	098-#3/0 A	7.52Y	125.4	0.02	0.62	7.50	3	166	32	98	0.02	0.0	1.488	0.188	11	2	4	80
OCR-4907	4906	ABC	010- 50-L	7.52Y	125.4	0.00	0.62	7.01	14	156	29	98	0.00	0.0	1.488	0.000	0	0	0	76
4907	OCR-4907	ABC	098-#3/0 A	7.52Y	125.3	0.06	0.68	7.01	2	156	29	98	0.05	0.0	2.135	0.647	43	8	15	76
4908	4907	ABC	098-#3/0 A	7.52Y	125.3	0.01	0.69	5.08	2	113	21	98	0.00	0.0	2.214	0.079	0	0	0	61
4909	4908	ABC	098-#3/0 A	7.52Y	125.3	0.00	0.69	5.08	2	113	21	98	0.00	0.0	2.272	0.058	3	1	1	61
4910	4909	ABC	098-#3/0 A	7.51Y	125.2	0.07	0.76	4.96	2	110	21	98	0.04	0.0	3.523	1.252	51	10	32	60
OCR-4915	4910	A	049-100-63	7.51Y	125.2	0.00	0.76	2.22	2	16	3	98	0.00	0.0	3.523	0.000	0	0	0	12
4915	OCR-4915	A	117-#6 A-C	7.51Y	125.2	0.07	0.83	2.22	2	16	3	98	0.01	0.0	4.974	1.451	16	3	12	12
4911	4910	ABC	098-#3/0 A	7.51Y	125.2	0.00	0.76	1.91	1	42	8	98	0.00	0.0	3.777	0.154	0	0	0	16
4912	4911	ABC	098-#3/0 A	7.51Y	125.2	0.01	0.77	1.91	1	42	8	98	0.00	0.0	4.020	0.342	23	4	3	16
4913	4912	ABC	098-#3/0 A	7.51Y	125.2	0.00	0.77	0.86	0	19	4	98	0.00	0.0	4.441	0.421	5	1	3	13
4914	4913	ABC	098-#3/0 A	7.51Y	125.2	0.00	0.78	0.63	0	14	3	98	0.00	0.0	4.718	0.277	0	0	0	10
OCR-4916	4914	C	049-100-63	7.51Y	125.2	0.00	0.78	1.88	2	14	3	98	0.00	0.0	4.718	0.000	0	0	0	10
4916	OCR-4916	C	118-#8 A-C	7.51Y	125.2	0.04	0.82	1.88	2	14	3	98	0.00	0.0	5.047	0.329	2	0	1	10
OCR-4917	4916	C	049-100-63	7.51Y	125.2	0.00	0.82	1.61	2	12	2	99	0.00	0.0	5.047	0.000	0	0	0	9
4917	OCR-4917	C	118-#8 A-C	7.51Y	125.1	0.08	0.90	1.61	2	12	2	99	0.01	0.0	6.633	1.587	12	2	9	9
OCR-763	141	C	049-100-63	7.52Y	125.4															

Balanced Voltage Drop Report
Source: 8200

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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	Element				
																Length (mi)	KW	KVAR	Cons On	Cons Thru
8201	8200	ABC	Node	7.56Y	126.0	0.00	0.00	55.39	0	1231	251	98	0.00	0.0	0.000	0.000	0	0	0	102
533	8201	ABC	098-#3/0 A	7.46Y	124.3	1.75	1.75	55.39	18	1231	251	98	12.93	1.1	2.607	2.607	400	76	28	102
147	533	ABC	102-#1/0 A	7.41Y	123.5	0.73	2.48	37.25	16	818	160	98	3.87	0.5	3.902	1.295	196	37	20	74
146	147	ABC	102-#1/0 A	7.41Y	123.5	0.05	2.53	7.33	3	160	30	98	0.04	0.0	4.763	0.861	160	30	13	13
997	147	ABC	102-#1/0 A	7.40Y	123.3	0.25	2.73	20.99	9	458	89	98	0.70	0.2	4.793	0.891	199	38	17	41
FUSE-145	997	C	083-30N FU	7.40Y	123.3	0.00	2.73	35.55	59	258	50	98	0.00	0.0	4.793	0.000	0	0	0	24
145	FUSE-145	C	117-#6 A-C	7.29Y	121.5	1.78	4.51	35.55	25	258	50	98	2.32	0.9	7.041	2.248	256	49	24	24

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	GenMotors	LoopstMetas	Losses	No Load Losses	Total	
KW	3825	0	0	0	0	0	32	0.00	3857	Lowest Voltage = 121.49 on Element 145
KVAR	1077	0	0	0	0	0	33	1110	1110	Max Accm VoltD = 4.51 on Element 145
										Max Elem VoltD = 1.78 on Element 145

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Balanced Voltage Drop Report
Source: 8700

Detail

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		Units Displayed In Volts													Element					
		-Base Voltage:120.0-																		
Element Name	Parent Name	Cof	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	PF	% Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
8700			ABC SRC-8700-D	7.56Y	126.0	0.00	0.00	180.13	0	3902	1210	96	0.00	0.0	0.000	0.000	0	0	0	983
----- Feeder NO. 4 Beginning with Node Element NODE feeder 4																				
NODE feeder 4	8700		ABC Node	7.56Y	126.0	0.00	0.00	33.41	0	750	107	99	0.00	0.0	0.000	0.000	0	0	0	124
8704	NODE feeder 4		ABC 098-#3/0 A	7.55Y	125.9	0.13	0.13	33.41	11	750	107	99	0.69	0.1	0.286	0.286	0	0	0	124
490	8704		ABC 098-#3/0 A	7.54Y	125.7	0.14	0.27	33.41	11	749	106	99	0.49	0.1	0.889	0.603	749	106	124	124
P 4046	490		ABC 118-#8 A-C	7.54Y	125.7	0.00	0.27	0.00	0	0	0	0	0.00	0.0	0.902	0.013	0	0	0	0 P
----- Feeder NO. 3 Beginning with Node Element 8703																				
8703	8700		ABC Node	7.56Y	126.0	0.00	0.00	34.46	0	750	219	96	0.00	0.0	0.000	0.000	0	0	0	102
625	8703		ABC 098-#3/0 A	7.53Y	125.6	0.42	0.42	34.46	11	750	219	96	1.77	0.2	0.997	0.997	312	72	4	102
861	625		ABC 098-#3/0 A	7.53Y	125.6	0.01	0.43	16.21	5	344	127	94	0.02	0.0	1.031	0.034	0	0	0	74
862	861		ABC 098-#3/0 A	7.53Y	125.5	0.03	0.46	16.21	5	344	127	94	0.07	0.0	1.154	0.123	0	0	2	74
751	862		ABC 110-#4 ACS	7.51Y	125.2	0.34	0.80	16.20	12	343	127	94	0.62	0.2	3.132	1.978	0	0	0	72
162	751		ABC 110-#4 ACS	7.50Y	125.0	0.17	0.97	14.00	10	264	173	84	0.15	0.1	5.099	1.968	264	172	11	11
OCR-160	751		ABC 011-70-L	7.51Y	125.2	0.00	0.80	4.05	6	79	-47	-86	0.00	0.0	3.132	0.000	0	0	0	61
160	OCR-160		ABC 102-#1/0 A	7.51Y	125.2	0.03	0.83	4.05	2	79	-47	-86	0.05	0.1	5.391	2.259	57	-34	44	61
RECLOSER-161	160		B 098-25H OC	7.51Y	125.2	0.00	0.83	3.34	13	22	-13	-86	0.00	0.0	5.391	0.000	0	0	0	17
161	RECLOSER-161		B 118-#8 A-C	7.50Y	125.0	0.15	0.99	3.34	3	22	-13	-86	0.03	0.1	7.670	2.279	22	-13	17	17
719	625		ABC 117-#6 A-C	7.53Y	125.5	0.05	0.47	4.19	3	93	18	98	0.02	0.0	1.591	0.594	93	18	24	24
----- Feeder NO. 2 Beginning with Node Element 8702																				
8702	8700		ABC Node	7.56Y	126.0	0.00	0.00	58.84	0	1201	582	90	0.00	0.0	0.000	0.000	0	0	0	210
158	8702		ABC 098-#3/0 A	7.42Y	123.7	2.32	2.32	58.84	20	1201	582	90	17.27	1.4	2.441	2.441	103	17	35	210
4013	158		ABC 098-#3/0 A	7.42Y	123.6	0.09	2.41	28.15	9	552	296	88	0.26	0.0	2.727	0.286	305	256	5	126
OCR-157	4013		ABC 011-70-L	7.42Y	123.6	0.00	2.41	11.24	16	247	40	99	0.00	0.0	2.727	0.000	0	0	0	121
157	OCR-157		ABC 098-#3/0 A	7.40Y	123.3	0.28	2.69	11.24	4	247	40	99	0.46	0.2	4.559	1.833	24	4	16	121
156	157		ABC 098-#3/0 A	7.39Y	123.2	0.11	2.80	5.44	2	119	19	99	0.08	0.1	6.313	1.754	48	8	21	47
1156	156		ABC 098-#3/0 A	7.39Y	123.2	0.01	2.81	3.27	1	72	11	99	0.01	0.0	6.658	0.345	16	3	6	26
1157	1156		ABC 098-#3/0 A	7.39Y	123.2	0.01	2.82	2.53	1	55	9	99	0.00	0.0	6.950	0.291	10	2	4	20
1158	1157		ABC 098-#3/0 A	7.39Y	123.2	0.03	2.85	2.09	1	46	7	99	0.01	0.0	7.977	1.027	5	1	4	16
OCR-1159	1158		A 049-100-63	7.39Y	123.2	0.00	2.85	5.65	6	41	7	99	0.00	0.0	7.977	0.000	0	0	0	12
1159	OCR-1159		A 118-#8 A-C	7.39Y	123.1	0.01	2.86	5.65	6	41	7	99	0.00	0.0	8.012	0.035	1	0	1	12
1160	1159		A 117-#6 A-C	7.39Y	123.1	0.04	2.90	5.56	4	41	7	99	0.01	0.0	8.162	0.150	1	0	1	11
OCR-1161	1160		A 049-100-63	7.39Y	123.1	0.00	2.90	5.44	5	40	6	99	0.00	0.0	8.162	0.000	0	0	0	10
1161	OCR-1161		A 117-#6 A-C	7.38Y	123.0	0.08	2.98	5.44	4	40	6	99	0.02	0.1	8.591	0.430	16	2	3	10
1162	1161		A 117-#6 A-C	7.38Y	123.0	0.05	3.03	3.31	2	24	4	99	0.01	0.0	9.055	0.464	14	2	3	7
1163	1162		A 118-#8 A-C	7.38Y	123.0	0.02	3.04	1.44	1	11	2	98	0.00	0.0	9.215	0.160	0	0	1	4
1164	1163		A 110-#4 ACS	7.38Y	123.0	0.01	3.05	1.44	1	10	2	98	0.00	0.0	9.463	0.248	0	0	0	3
1165	1164		A 110-#4 ACS	7.38Y	122.9	0.00	3.05	1.44	1	10	2	98	0.00	0.0	9.670	0.207	10	2	3	3
OCR-155	157		C 060-35-4H	7.40Y	123.3	0.00	2.69	7.64	22	56	9	99	0.00	0.0	4.559	0.000	0	0	0	28
155	OCR-155		C 118-#8 A-C	7.35Y	122.5	0.80	3.49	7.64	8	56	9	99	0.29	0.5	6.697	2.138	28	4	15	28
212	155		C 118-#8 A-C	7.34Y	122.4	0.13	3.63	3.86	4	28	4	99	0.02	0.1	7.748	1.051	28	4	13	13
FUSE-154	157		B 083-30N FU	7.40Y	123.3	0.00	2.69	6.43	11	47	8	99	0.00	0.0	4.559	0.000	0	0	0	30
154	FUSE-154		B 118-#8 A-C	7.36Y	122.7	0.59	3.28	6.43	6	47	8	99	0.14	0.3	7.372	2.812	47	7	30	30
4012	158		A 106-#2 ACS	7.41Y	123.5	0.13	2.45	6.79	4	50	8	99	0.03	0.1	3.701	1.259	50	8	18	18
901	158		ABC 106-#2 ACS	7.41Y	123.5	0.15	2.48	24.08	13	478	242	89	0.39	0.1	2.880	0.439	444	236	16	31
902	901		B 106-#2 ACS	7.41Y	123.4	0.08	2.56	4.65	3	34	5	99	0.01	0.0	4.015	1.134	34	5	15	15
----- Feeder NO. 1 Beginning with Node Element 8701																				
8701	8700		ABC Node	7.56Y	126.0	0.00	0.00	54.60	0	1201	302	97	0.00	0.0	0.000	0.000	0	0	0	547
502	8701		ABC 090-336 AC	7.54Y	125.6	0.40	0.40	54.60	0	1201	302	97	2.53	0.2	1.059	1.059	67	6	43	547
P 4073	502		ABC 090-336 AC	7.54Y	125.6	0.00	0.40	0.00	0	0	0	0	0.00	0.0	1.066	0.006	0	0	0	0 P
889	502		ABC 090-336 AC	7.53Y	125.6	0.04	0.44	51.67	10	1132	290	97	0.24	0.0	1.168	0.109	0	0	0	504
711	889		ABC 098-#3/0 A	7.49Y	124.9	0.65	1.09	51.67	17	1132	289	97	4.62	0.4	2.124	0.956	193	141	26	504
214	711		ABC 098-#3/0 A	7.48Y	124.6	0.31	1.40	42.04	14	934	143	99	2.02	0.2	2.668	0.544	26	23	3	478
OCR-213	214		C 005-25-H	7.48Y	124.6	0.00	1.40	1.65	7	12	1	100	0.00	0.0	2.668	0.000	0	0	0	7
213	OCR-213		C 106-#2 ACS	7.47Y	124.5	0.06	1.47	1.65	1	12	1	100	0.00	0.0	5.281	2.614	12	1	7	7
211	214		ABC 098-#3/0 A	7.42Y	123.7	0.87	2.27	40.21	13	894	117	99	5.41	0.6	4.299	1.631	60	6	25	468
4028	211		C 117-#6 A-C	7.42Y	123.6	0.12	2.39	3.63	3	27	3	99	0.02	0.1	5.774	1.475	27	3	19	19
4004	211		ABC 098-#3/0 A	7.41Y	123.5	0.24	2.51	36.31	12	802	102	99	1.35	0.2	4.790	0.491	35	3	10	424
4005	4004		ABC Regulator	7.56Y	126.0	-2.51	0.00	34.74	16	766	97	99	0.00	0.0	4.790	0.000	0	0	0	424
209	4005		ABC 098-#3/0 A	7.54Y	125.6	0.37	0.37	34.05	11	766	97	99	1.97	0.3	5.609	0.820	43	4	19	414
OCR-208	209		ABC 012-100-L	7.54Y	125.6	0.00	0.37	14.79	15	333	33	100	0.00	0.0	5.609	0.000	0	0	0	183
208	OCR-208		ABC 106-#2 ACS	7.50Y	124.9	0.70	1.07	14.79	8	333	33	100	1.63	0.5	7.799	2.190	82	8	27	183
OCR-207	208		B 007-50-H	7.50Y	124.9	0.00	1.07	4.72	9	3										

Balanced Voltage Drop Report
Source: 8700

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Units Displayed In Volts																-----Element-----							
--Base Voltage:120.0--																mi		Length		Cons		Cons	
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	PF	% Loss	% Loss	From Src	Length (mi)	KW	KVAR	On	Thru			
79	80	C	117-#6 A-C	7.48Y	124.7	0.08	1.30	4.26	3	32	3	100	0.02	0.1	12.530	0.456	5	0	3	12			
4802	79	C	106-#2 ACS	7.48Y	124.6	0.06	1.35	3.57	2	27	3	99	0.01	0.0	13.060	0.530	0	0	0	9			
4803	4802	C	106-#2 ACS	7.48Y	124.6	0.01	1.37	3.57	2	27	3	99	0.00	0.0	13.248	0.188	15	1	2	9			
4804	4803	C	106-#2 ACS	7.48Y	124.6	0.02	1.39	1.52	1	11	1	100	0.00	0.0	14.280	1.032	11	1	7	7			
78	80	ABC	098-#3/0 A	7.49Y	124.8	0.01	1.23	1.76	1	33	22	83	0.00	0.0	13.005	0.931	31	21	7	8			
76	78	ABC	098-#3/0 A	7.49Y	124.8	0.00	1.24	0.11	0	2	0	100	0.00	0.0	15.024	2.019	2	0	1	1			
OCR-86	83	ABC	006- 35-H	7.51Y	125.1	0.00	0.85	3.97	11	89	9	99	0.00	0.0	8.208	0.000	0	0	0	59			
86	OCR-86	ABC	106-#2 ACS	7.50Y	125.1	0.09	0.95	3.97	2	89	9	99	0.06	0.1	9.222	1.015	12	1	10	59			
FUSE-85	86	C	083-30N FU	7.50Y	125.1	0.00	0.95	6.44	11	48	5	99	0.00	0.0	9.222	0.000	0	0	0	31			
85	FUSE-85	C	118-#8 A-C	7.47Y	124.5	0.53	1.47	6.44	6	48	5	99	0.13	0.3	11.760	2.538	48	5	31	31			
FUSE-84	86	B	083-30N FU	7.50Y	125.1	0.00	0.95	3.92	7	29	3	99	0.00	0.0	9.222	0.000	0	0	0	18			
84	FUSE-84	B	118-#8 A-C	7.49Y	124.9	0.19	1.14	3.92	4	29	3	99	0.03	0.1	10.730	1.508	29	3	18	18			
OCR-210	209	A	005- 25-H	7.54Y	125.6	0.00	0.37	9.94	40	75	7	100	0.00	0.0	5.609	0.000	0	0	0	50			
210	OCR-210	A	106-#2 ACS	7.51Y	125.2	0.42	0.79	9.94	6	75	7	100	0.16	0.2	8.475	2.866	74	7	50	50			

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total		
KW	3857	0	0	0	0	0	45	0.00	3902	Lowest Voltage = 122.37 on Element 212	
KVAR	1157	0	0	0	0	0	53		1210	Max Accm VoltD = 3.63 on Element 212	
										Max Elem VoltD = 2.32 on Element 158	

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Hardinsburg 1 WINTER CASE

Balanced Voltage Drop Report
Source: 8600

Detail

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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		Element		Cons On	Cons Thru	
															From Src	Length (mi)	KW	KVAR			
8600		ABC	SRC-8600-D		7.56Y 126.0	0.00	0.00	254.22	0	5528	1638	96	0.00	0.0	0.000	0.000	0	0	0	1568	
----- Feeder NO. 8 Beginning with Node Element 8608																					
8608	8600	ABC	Node		7.56Y 126.0	0.00	0.00	79.77	0	1700	618	94	0.00	0.0	0.000	0.000	0	0	0	469	
4111	8608	ABC	098-#3/0 A		7.56Y 126.0	0.02	0.02	79.77	27	1700	618	94	0.18	0.0	0.013	0.013	0	0	0	469	
506	4111	ABC	090-336 AC		7.53Y 125.5	0.50	0.51	79.77	15	1700	618	94	3.88	0.2	0.871	0.859	306	118	100	469	
P 4119	506	ABC	098-#3/0 A		7.53Y 125.5	0.00	0.51	0.00	0	0	0	0	0.00	0.0	0.883	0.011	0	0	0	0	P
4010	506	A	116-4-ACWC		7.53Y 125.4	0.05	0.56	9.10	5	68	5	100	0.02	0.0	1.151	0.280	42	3	28	45	
4011	4010	A	118-#8 A-C		7.53Y 125.4	0.02	0.58	3.47	3	26	2	100	0.00	0.0	1.295	0.144	26	2	17	17	
888	506	ABC	098-#3/0 A		7.53Y 125.5	0.00	0.51	0.29	0	6	0	100	0.00	0.0	0.975	0.103	6	0	8	8	
FUSE-606	506	ABC	083-30N FU		7.53Y 125.5	0.00	0.51	22.28	37	482	144	96	0.00	0.0	0.871	0.000	0	0	0	196	
606	FUSE-606	ABC	098-#3/0 A		7.52Y 125.3	0.15	0.66	22.28	7	482	144	96	0.33	0.1	1.659	0.788	421	139	162	196	
OCR-765	606	B	010- 50-L		7.52Y 125.3	0.00	0.66	8.19	16	61	4	100	0.00	0.0	1.659	0.000	0	0	0	34	
765	OCR-765	B	118-#8 A-C		7.48Y 124.6	0.75	1.42	8.19	8	61	4	100	0.24	0.4	4.546	2.887	61	4	34	34	
605	506	ABC	090-336 AC		7.52Y 125.3	0.15	0.66	39.86	8	833	341	93	0.47	0.1	1.488	0.617	464	209	63	120	
FUSE-830	605	ABC	083-30N FU		7.52Y 125.3	0.00	0.66	7.70	13	163	59	94	0.00	0.0	1.488	0.000	0	0	0	2	
830	FUSE-830	ABC	110-#4 ACS		7.52Y 125.3	0.00	0.66	7.70	6	163	59	94	0.00	0.0	1.537	0.049	163	59	2	2	
FUSE-725	605	ABC	083-30N FU		7.52Y 125.3	0.00	0.66	9.67	16	206	73	94	0.00	0.0	1.488	0.000	0	0	0	55	
725	FUSE-725	ABC	090-336 AC		7.52Y 125.3	0.04	0.70	9.67	2	206	73	94	0.03	0.0	2.490	1.002	206	72	55	55	
----- Feeder NO. 7 Beginning with Node Element 8607																					
8607	8600	ABC	Node		7.56Y 126.0	0.00	0.00	6.73	0	151	22	99	0.00	0.0	0.000	0.000	0	0	0	49	
785	8607	ABC	098-#3/0 A		7.56Y 126.0	0.01	0.01	6.73	2	151	22	99	0.01	0.0	0.137	0.137	0	0	0	49	
489	785	ABC	090-336 AC		7.56Y 126.0	0.01	0.03	6.73	1	151	22	99	0.01	0.0	0.777	0.640	151	21	49	49	
----- Feeder NO. 6 Beginning with Node Element 8606																					
8606	8600	ABC	Node		7.56Y 126.0	0.00	0.00	25.61	0	575	82	99	0.00	0.0	0.000	0.000	0	0	0	124	
202	8606	ABC	098-#3/0 A		7.55Y 125.9	0.14	0.14	25.61	9	575	82	99	0.38	0.1	0.803	0.803	575	82	124	124	
----- Feeder NO. 5 Beginning with Node Element 8605																					
P 8605	8600	ABC	Node		7.56Y 126.0	0.00	0.00	0.00	0	0	0	0	0.00	0.0	0.000	0.000	0	0	0	0	P
P 484	8605	ABC	098-#3/0 A		7.56Y 126.0	0.00	0.00	0.00	0	0	0	0	0.00	0.0	0.803	0.803	0	0	0	0	P
----- Feeder NO. 4 Beginning with Node Element 8604																					
8604	8600	ABC	Node		7.56Y 126.0	0.00	0.00	60.28	0	1326	333	97	0.00	0.0	0.000	0.000	0	0	0	366	
714	8604	ABC	098-#3/0 A		7.55Y 125.8	0.25	0.25	60.28	20	1326	333	97	2.12	0.2	0.289	0.289	96	57	4	366	
C OCR-164	714	ABC	003-10-H O		7.55Y 125.8	0.00	0.25	48.68	487	1075	241	98	0.00	0.0	0.289	0.000	0	0	0	314	C
164	OCR-164	ABC	116-4-ACWC		7.50Y 125.0	0.72	0.97	48.68	27	1075	241	98	5.70	0.5	0.866	0.578	6	1	1	314	
P 163	164	ABC	098-#3/0 A		7.50Y 125.0	0.00	0.97	0.00	0	0	0	0	0.00	0.0	1.346	0.480	0	0	0	0	P
P 4116	163	ABC	098-#3/0 A		7.50Y 125.0	0.00	0.97	0.00	0	0	0	0	0.00	0.0	1.385	0.039	0	0	0	0	P
721	164	C	117-#6 A-C		7.49Y 124.8	0.19	1.16	14.22	10	104	22	98	0.14	0.1	1.194	0.327	17	4	3	32	
OCR-159	721	C	010- 50-L		7.49Y 124.8	0.00	1.16	11.88	24	87	19	98	0.00	0.0	1.194	0.000	0	0	0	29	
159	OCR-159	C	110-#4 ACS		7.49Y 124.8	0.08	1.24	11.88	8	87	19	98	0.03	0.0	2.110	0.917	87	19	29	29	
OCR-179	164	ABC	038- 70-E		7.50Y 125.0	0.00	0.97	43.66	62	959	214	98	0.00	0.0	0.866	0.000	0	0	0	281	
179	OCR-179	ABC	098-#3/0 A		7.44Y 123.9	1.09	2.06	43.66	15	959	214	98	6.38	0.7	2.854	1.988	272	58	77	281	
OCR-178	179	C	060-35-H		7.44Y 123.9	0.00	2.06	5.77	16	42	9	98	0.00	0.0	2.854	0.000	0	0	0	16	
178	OCR-178	C	118-#8 A-C		7.41Y 123.5	0.49	2.55	5.77	6	42	9	98	0.11	0.3	5.411	2.557	42	9	16	16	
995	179	ABC	098-#3/0 A		7.43Y 123.8	0.09	2.15	26.64	9	580	128	98	0.36	0.1	3.089	0.235	0	0	0	168	
OCR-177	995	ABC	011- 70-L		7.43Y 123.8	0.00	2.15	26.64	38	580	127	98	0.00	0.0	3.089	0.000	0	0	0	168	
177	OCR-177	ABC	098-#3/0 A		7.38Y 123.1	0.79	2.94	26.64	9	580	127	98	2.86	0.5	5.369	2.280	135	29	35	168	
OCR-994	177	A	006- 35-H		7.38Y 123.1	0.00	2.94	19.20	55	139	30	98	0.00	0.0	5.369	0.000	0	0	0	37	
994	OCR-994	A	118-#8 A-C		7.33Y 122.1	0.94	3.88	19.20	19	139	30	98	0.94	0.7	6.215	0.846	33	7	5	37	
992	994	A	118-#8 A-C		7.29Y 121.6	0.56	4.45	14.56	15	104	22	98	0.44	0.4	6.854	0.639	17	4	3	32	
FUSE-187	992	A	082-25N FU		7.29Y 121.6	0.00	4.45	12.12	24	86	18	98	0.00	0.0	6.854	0.000	0	0	0	29	
187	FUSE-187	A	118-#8 A-C		7.24Y 120.7	0.89	5.34	12.12	12	86	18	98	0.41	0.5	9.086	2.232	86	18	29	29	
993	177	ABC	098-#3/0 A		7.38Y 123.0	0.06	3.00	14.02	5	303	66	98	0.12	0.0	5.696	0.328	40	8	4	96	
OCR-176	993	C	006- 35-H		7.38Y 123.0	0.00	3.00	9.08	26	66	14	98	0.00	0.0	5.696	0.000	0	0	0	31	
176	OCR-176	C	110-#4 ACS		7.37Y 122.8	0.17	3.17	9.08	6	66	14	98	0.04	0.1	8.113	2.416	65	14	31	31	
OCR-175	993	B	047-70-63.		7.38Y 123.0	0.00	3.00	27.47	39	198	43	98	0.00	0.0	5.696	0.000	0	0	0	61	
175	OCR-175	B	106-#2 ACS		7.30Y 121.7	1.27	4.27	27.47	15	198	43	98	1.40	0.7	7.894	2.198	132	28	41	61	
OCR-174	175	B	047-70-63.		7.30Y 121.7	0.00	4.27	4.18	6	30	6	98	0.00	0.0	7.894	0.000	0	0	0	13	
174	OCR-174	B	106-#2 ACS		7.30Y 121.7	0.07	4.34	4.18	2	30	6	98	0.01	0.0	9.019	1.125	30	6	13	13	
173	175	B	118-#8 A-C		7.29Y 121.5	0.24	4.50	4.81	5	34	7	98	0.04	0.1	9.375	1.480	34	7	7	7	
OCR-749	179	A	006- 35-H		7.44Y 123.9	0.00	2.06	8.06	23	59	12	98	0.00	0.0	2.854	0.000	0	0	0	20	
749	OCR-749	A	118-#8 A-C		7.41Y 123.5	0.47	2.53	8.06	8	59	12	98	0.14	0.2	4.622	1.768	58	12	20	20	
720	714	ABC	098-#3/0 A		7.54Y 125.7	0.03	0.27	6.92	2												

Balanced Voltage Drop Report
Source: 8600

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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
4020	715	ABC	116-4-ACWC	7.53Y	125.5	0.10	0.52	19.37	11	434	59	99	0.33	0.1	1.565	0.230	50	7	23	216
171	4020	ABC	116-4-ACWC	7.48Y	124.6	0.83	1.35	17.14	10	383	53	99	2.23	0.6	3.729	2.164	77	10	50	193
170	171	ABC	098-#3/0 A	7.47Y	124.5	0.13	1.48	12.25	4	272	37	99	0.23	0.1	4.535	0.807	40	5	15	126
OCR-168	170	ABC	006- 35-H	7.47Y	124.5	0.00	1.48	8.88	25	197	27	99	0.00	0.0	4.535	0.000	0	0	0	100
168	OCR-168	ABC	098-#3/0 A	7.46Y	124.3	0.20	1.68	8.88	3	197	27	99	0.24	0.1	6.655	2.120	89	12	41	100
4008	168	A	118-#8 A-C	7.45Y	124.1	0.19	1.86	4.98	5	37	5	99	0.04	0.1	7.807	1.152	37	5	17	17
SECTZR-601	168	B	099-SECTIO	7.46Y	124.3	0.00	1.68	3.09	12	23	3	99	0.00	0.0	6.655	0.000	0	0	0	19
601	SECTZR-601	B	117-#6 A-C	7.46Y	124.3	0.07	1.74	3.09	2	23	3	99	0.01	0.0	7.630	0.975	23	3	19	19
OCR-600	168	C	047-70-63	7.46Y	124.3	0.00	1.68	6.59	9	49	7	99	0.00	0.0	6.655	0.000	0	0	0	23
600	OCR-600	C	117-#6 A-C	7.44Y	124.0	0.29	1.96	6.59	5	49	7	99	0.07	0.1	8.645	1.990	49	6	23	23
167	170	ABC	098-#3/0 A	7.47Y	124.5	0.01	1.49	1.60	1	36	5	99	0.00	0.0	5.290	0.755	36	5	11	11
169	171	B	118-#8 A-C	7.46Y	124.4	0.25	1.60	4.22	4	31	4	99	0.04	0.1	5.547	1.819	31	4	17	17
----- Feeder NO. 1 Beginning with Node Element 8601																				
P 8601	8600	ABC	Node	7.56Y	126.0	0.00	0.00	0.00	0	0	0	0	0.00	0.0	0.000	0.000	0	0	0	0 P

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total	
KW	5494	0	0	0	0	0	34		0.00	5528	Lowest Voltage = 120.66 on Element 187
KVAR	1602	0	0	0	0	0	36			1638	Max Accm VoltD = 5.34 on Element 187
											Max Elem VoltD = 1.27 on Element 175

HARNED WINTER CASE

Detail

Balanced Voltage Drop Report
Source: 8140

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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	Element KVAR	Cons On	Cons Thru
8140	Feeder NO.	2	ABC SRC-8140-D	7.56Y	126.0	0.00	0.00	209.38	0	4629	1119	97	0.00	0.0	0.000	0.000	0	0	0	1155
----- Beginning with Node Element 8142 -----																				
8142	8140	ABC	Node	7.56Y	126.0	0.00	0.00	119.37	0	2652	542	98	0.00	0.0	0.000	0.000	0	0	0	602
1150	8142	ABC	#3/0 ACSR	7.56Y	125.9	0.06	0.06	119.37	40	2652	542	98	1.41	0.1	0.059	0.059	0	0	0	602
P 786	1150	ABC	098-#3/0 A	7.56Y	125.9	0.00	0.06	0.00	0	0	0	0	0.00	0.0	1.144	1.085	0	0	0	0
190	1150	ABC	098-#3/0 A	7.42Y	123.7	2.26	2.32	119.37	40	2651	542	98	38.14	1.4	1.564	1.505	526	267	6	602
745	190	ABC	098-#3/0 A	7.36Y	122.7	0.99	3.32	94.31	31	2087	231	99	15.13	0.7	2.348	0.784	0	0	0	596
OCR-216	745	B	006-35-H	7.36Y	122.7	0.00	3.32	23.74	68	174	19	99	0.00	0.0	2.348	0.000	0	0	0	83
216	OCR-216	B	106-#2 ACS	7.29Y	121.5	1.23	4.55	23.74	13	174	19	99	1.29	0.7	4.882	2.534	106	11	53	83
FUSE-215	216	B	083-30N FU	7.29Y	121.5	0.00	4.55	6.63	11	48	5	99	0.00	0.0	4.882	0.000	0	0	0	23
215	FUSE-215	B	106-#2 ACS	7.27Y	121.2	0.24	4.79	6.63	4	48	5	99	0.06	0.1	7.371	2.489	48	5	23	23
4107	216	B	110-#4 ACS	7.29Y	121.4	0.00	4.55	2.48	2	18	2	99	0.00	0.0	5.137	0.255	18	2	7	7
196	745	ABC	098-#3/0 A	7.30Y	121.6	1.07	4.38	86.39	29	1898	195	99	14.98	0.8	3.273	0.925	0	0	0	513
4030	196	ABC	098-#3/0 A	7.29Y	121.4	0.19	4.57	62.33	21	1360	113	100	1.97	0.1	3.510	0.237	15	9	3	317
4087	4030	ABC	Regulator	7.56Y	126.0	-4.57	0.00	61.60	28	1343	101	100	0.00	0.0	3.510	0.000	0	0	0	314
535	4087	ABC	098-#3/0 A	7.46Y	124.3	1.70	1.70	59.37	20	1343	101	100	16.33	1.2	5.869	2.359	151	22	52	314
OCR-188	535	C	007-50-H	7.46Y	124.3	0.00	1.70	5.59	11	41	4	100	0.00	0.0	5.869	0.000	0	0	0	26
188	OCR-188	C	118-#8 A-C	7.44Y	124.0	0.28	1.98	5.59	6	41	4	100	0.06	0.1	7.414	1.545	41	4	26	26
OCR-185	535	B	049-100-63	7.46Y	124.3	0.00	1.70	4.60	5	34	4	99	0.00	0.0	5.869	0.000	0	0	0	6
185	OCR-185	B	117-#6 A-C	7.45Y	124.2	0.09	1.79	4.60	3	34	4	99	0.01	0.0	6.736	0.867	34	3	6	6
182	535	ABC	098-#3/0 A	7.43Y	123.8	0.50	2.20	49.21	16	1100	53	100	4.07	0.4	6.726	0.857	124	33	32	230
P 4839	182	ABC	Capacitor	7.43Y	123.8	0.00	2.20	16.43	0	214	-297	-58	0.00	0.0	6.726	0.000	0	0	0	73
4836	4839	ABC	098-#3/0 A	7.42Y	123.7	0.13	2.33	9.67	3	214	22	99	0.18	0.1	8.037	1.311	91	9	33	73
4818	4836	C	118-#8 A-C	7.42Y	123.6	0.07	2.40	16.63	17	123	13	99	0.07	0.1	8.105	0.068	10	1	3	40
OCR-4819	4818	C	061-50-4H	7.42Y	123.6	0.00	2.40	15.27	31	113	12	99	0.00	0.0	8.105	0.000	0	0	0	37
4819	OCR-4819	C	117-#6 A-C	7.39Y	123.1	0.50	2.90	15.27	11	113	12	99	0.40	0.4	8.961	0.856	25	3	7	37
4820	4819	C	106-#2 ACS	7.38Y	123.0	0.14	3.05	11.85	7	87	9	99	0.09	0.1	9.366	0.406	0	0	0	30
183	4820	C	117-#6 A-C	7.37Y	122.8	0.19	3.24	11.85	8	87	9	99	0.09	0.1	10.120	0.754	87	9	30	30
4815	182	ABC	106-#2 ACS	7.42Y	123.7	0.08	2.28	28.03	16	553	290	89	0.24	0.0	6.902	0.176	453	279	8	53
4816	4815	B	106-#2 ACS	7.42Y	123.7	0.01	2.29	13.56	8	100	10	100	0.01	0.0	6.932	0.030	0	0	0	45
OCR-4817	4816	B	061-50-4H	7.42Y	123.7	0.00	2.29	13.56	27	100	10	100	0.00	0.0	6.932	0.000	0	0	0	45
4817	OCR-4817	B	106-#2 ACS	7.42Y	123.6	0.12	2.41	13.56	8	100	10	100	0.08	0.1	7.295	0.364	39	4	14	45
OCR-184	4817	B	051-140-63	7.42Y	123.6	0.00	2.41	8.26	6	61	6	100	0.00	0.0	7.295	0.000	0	0	0	31
184	OCR-184	B	110-#4 ACS	7.41Y	123.5	0.09	2.50	8.26	6	61	6	100	0.02	0.0	8.995	1.699	61	6	31	31
1180	182	A	106-#2 ACS	7.34Y	122.4	1.41	3.61	27.71	15	205	23	99	1.85	0.9	8.916	2.190	88	9	32	72
1181	1180	A	106-#2 ACS	7.32Y	122.0	0.35	3.96	15.69	9	115	12	99	0.29	0.3	9.724	0.808	16	2	7	40
1182	1181	A	106-#2 ACS	7.29Y	121.6	0.48	4.44	13.52	8	98	10	99	0.33	0.3	11.058	1.334	21	2	5	33
1183	1182	A	106-#2 ACS	7.29Y	121.5	0.02	4.46	10.66	6	77	8	99	0.01	0.0	11.124	0.066	10	1	8	28
1184	1183	A	106-#2 ACS	7.29Y	121.4	0.12	4.58	9.33	5	68	7	99	0.06	0.1	11.606	0.482	17	2	4	20
1185	1184	A	106-#2 ACS	7.28Y	121.3	0.10	4.68	7.00	4	51	5	100	0.03	0.1	12.219	0.613	21	2	9	16
1186	1185	A	106-#2 ACS	7.28Y	121.3	0.03	4.70	4.09	2	30	3	100	0.00	0.0	12.658	0.439	30	3	7	7
OCR-746	196	ABC	007-50-H	7.30Y	121.6	0.00	4.38	24.08	48	523	66	99	0.00	0.0	3.273	0.000	0	0	0	196
746	OCR-746	ABC	098-#3/0 A	7.29Y	121.5	0.07	4.46	24.08	8	523	66	99	0.28	0.1	3.516	0.243	55	15	15	196
4081	746	ABC	098-#3/0 A	7.29Y	121.5	0.05	4.50	21.49	7	467	50	99	0.16	0.0	3.677	0.162	3	0	1	181
4082	4081	ABC	Regulator	7.56Y	126.0	-4.50	0.00	21.35	7	464	50	99	0.00	0.0	3.677	0.000	0	0	0	180
4083	4082	ABC	098-#3/0 A	7.56Y	125.9	0.08	0.08	20.59	7	464	50	99	0.25	0.1	3.965	0.288	29	3	4	180
4084	4083	ABC	098-#3/0 A	7.54Y	125.6	0.31	0.39	19.29	6	435	47	99	0.90	0.2	5.344	1.379	103	11	38	176
4085	4084	ABC	098-#3/0 A	7.53Y	125.4	0.17	0.56	14.73	5	331	35	99	0.39	0.1	6.264	0.920	39	4	8	138
4088	4085	B	106-#2 ACS	7.52Y	125.4	0.04	0.61	11.08	6	83	9	99	0.03	0.0	6.406	0.141	10	1	4	38
4089	4088	B	106-#2 ACS	7.52Y	125.3	0.11	0.72	9.80	5	73	8	99	0.05	0.1	6.823	0.417	15	2	4	34
4090	4089	B	106-#2 ACS	7.50Y	124.9	0.37	1.08	7.77	4	58	6	99	0.13	0.2	9.086	2.263	34	4	22	30
4091	4090	B	106-#2 ACS	7.49Y	124.9	0.01	1.09	3.17	2	24	2	100	0.00	0.0	9.207	0.121	0	0	0	8
4092	4091	B	106-#2 ACS	7.49Y	124.9	0.04	1.13	3.17	2	24	2	100	0.01	0.0	9.803	0.595	14	1	4	8
4093	4092	B	106-#2 ACS	7.49Y	124.9	0.01	1.14	1.30	1	10	1	100	0.00	0.0	10.448	0.645	10	1	4	4
4086	4085	ABC	098-#3/0 A	7.52Y	125.4	0.02	0.58	9.29	3	209	22	99	0.03	0.0	6.438	0.174	3	0	3	92
OCR-194	4086	A	006-35-H	7.52Y	125.4	0.00	0.58	8.79	25	66	7	99	0.00	0.0	6.438	0.000	0	0	0	27
194	OCR-194	A	118-#8 A-C	7.48Y	124.7	0.73	1.31	8.79	9	66	7	99	0.25	0.4	9.017	2.579	66	7	27	27
OCR-193	4086	C	009-35-L	7.52Y	125.4	0.00	0.58	18.72	53	140	15	99	0.00	0.0	6.438	0.000	0	0	0	62
193	OCR-193	C	100-#2/0 A	7.50Y	125.0	0.40	0.99	18.72	7	140	15	99	0.33	0.2	8.073	1.634				

MICHAEL'S WINTER USE

Detail

Balanced Voltage Drop Report Source: 8810

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		Units Displayed in Volts -Base Voltage:120.0-													mi		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	From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
8810	hunt	ABC	SRC-8810-D	7.56Y	126.0	0.00	0.00	396.39	0	8897	1291	99	0.00	0.0	0.000	0.000	0	0	0	3042
	Feeder NO. 3	ABC	Capacitor	7.56Y	126.0	0.00	0.00	396.39	0	8897	1291	99	0.00	0.0	0.000	0.000	0	0	0	3042
Beginning with Node Element 8813																				
8813	hunt	ABC	Node	7.56Y	126.0	0.00	0.00	153.07	0	3298	1083	95	0.00	0.0	0.000	0.000	0	0	0	1214
792	8813	ABC	098-#3/0 A	7.46Y	124.3	1.72	1.72	153.07	51	3298	1083	95	36.32	1.1	0.725	0.725	51	23	14	1214
130	792	ABC	098-#3/0 A	7.32Y	122.0	2.28	4.00	150.59	50	3211	1019	95	47.03	1.5	1.729	1.005	174	79	58	1200
OCR-129	130	B	049-100-63	7.32Y	122.0	0.00	4.00	11.56	12	77	35	91	0.00	0.0	1.729	0.000	0	0	0	65
129	OCR-129	B	106-#2 ACS	7.28Y	121.4	0.60	4.60	11.56	6	77	35	91	0.22	0.3	4.739	3.009	77	35	65	65
128	130	ABC	098-#3/0 A	7.21Y	120.1	1.87	5.87	138.19	46	2913	852	96	36.31	1.2	2.626	0.896	70	32	16	1077
903	128	ABC	Regulator	7.56Y	126.0	-5.87	0.00	134.67	61	2806	779	96	0.00	0.0	2.626	0.000	0	0	0	1061
4110	903	ABC	098-#3/0 A	7.54Y	125.6	0.36	0.36	128.41	43	2806	780	96	6.61	0.2	2.812	0.186	21	9	4	1061
125	4110	ABC	098-#3/0 A	7.45Y	124.2	1.47	1.83	127.40	42	2778	763	96	26.58	1.0	3.585	0.774	74	34	13	1057
OCR-124	125	ABC	012-100-L	7.45Y	124.2	0.00	1.83	35.65	36	724	333	91	0.00	0.0	3.585	0.000	0	0	0	271
124	OCR-124	ABC	098-#3/0 A	7.41Y	123.6	0.60	2.43	35.65	12	724	333	91	2.52	0.3	4.751	1.166	197	92	20	271
123	124	ABC	098-#3/0 A	7.39Y	123.2	0.35	2.78	17.36	6	352	160	91	0.73	0.2	6.101	1.349	76	34	25	181
OCR-122	123	C	006-35-H	7.39Y	123.2	0.00	2.78	12.99	37	88	40	91	0.00	0.0	6.101	0.000	0	0	0	51
122	OCR-122	C	118-#8 A-C	7.35Y	122.6	0.65	3.42	12.99	13	88	40	91	0.38	0.4	7.129	1.028	49	22	30	51
OCR-657	122	C	051-140-63	7.35Y	122.6	0.00	3.42	5.69	4	38	17	91	0.00	0.0	7.129	0.000	0	0	0	21
657	OCR-657	C	117-#6 A-C	7.35Y	122.5	0.11	3.53	5.69	4	38	17	91	0.02	0.1	7.955	0.826	38	17	21	21
OCR-659	123	B	051-140-63	7.39Y	123.2	0.00	2.78	27.82	20	187	85	91	0.00	0.0	6.101	0.000	0	0	0	105
659	OCR-659	B	110-#4 ACS	7.38Y	123.0	0.24	3.01	27.82	20	187	85	91	0.15	0.1	7.003	0.902	187	85	105	105
OCR-127	124	A	009-35-L	7.41Y	123.6	0.00	2.43	25.61	73	173	79	91	0.00	0.0	4.751	0.000	0	0	0	70
127	OCR-127	A	106-#2 ACS	7.34Y	122.3	1.24	3.67	25.61	14	173	79	91	1.36	0.8	6.410	1.659	52	23	13	70
OCR-631	127	A	049-100-63	7.34Y	122.3	0.00	3.67	8.14	8	54	25	91	0.00	0.0	6.410	0.000	0	0	0	35
631	OCR-631	A	117-#6 A-C	7.33Y	122.2	0.17	3.84	8.14	6	54	25	91	0.05	0.1	7.289	0.879	54	25	35	35
FUSE-563	127	A	082-25N FU	7.34Y	122.3	0.00	3.67	9.72	19	65	29	91	0.00	0.0	6.410	0.000	0	0	0	22
563	FUSE-563	A	110-#4 ACS	7.33Y	122.2	0.10	3.77	9.72	7	65	29	91	0.03	0.0	7.225	0.815	42	19	10	22
799	563	A	118-#8 A-C	7.33Y	122.2	0.05	3.82	3.45	3	23	10	92	0.01	0.0	7.664	0.440	23	10	12	12
C OCR-121	125	ABC	012-100-L	7.45Y	124.2	0.00	1.83	88.93	89	1954	365	98	0.00	0.0	3.585	0.000	0	0	0	773 C
121	OCR-121	ABC	098-#3/0 A	7.36Y	122.7	1.49	3.32	88.93	30	1954	365	98	19.21	1.0	4.873	1.287	282	128	88	773
OCR-120	121	A	007-50-H	7.36Y	122.7	0.00	3.32	22.86	46	153	70	91	0.00	0.0	4.873	0.000	0	0	0	99
120	OCR-120	A	106-#2 ACS	7.30Y	121.6	1.08	4.40	22.86	13	153	70	91	1.08	0.7	6.441	1.568	38	17	7	99
P 793	120	A	117-#6 A-C	7.30Y	121.6	0.00	4.40	0.00	0	0	0	0	0.00	0.0	7.401	0.960	0	0	0	P
547	120	A	106-#2 ACS	7.25Y	120.8	0.85	5.25	17.17	10	114	52	91	0.53	0.5	8.665	2.224	81	37	31	92
FUSE-546	547	A	085-50N FU	7.25Y	120.8	0.00	5.25	4.91	5	32	15	91	0.00	0.0	8.665	0.000	0	0	0	61
546	FUSE-546	A	106-#2 ACS	7.23Y	120.6	0.18	5.42	4.91	3	32	15	91	0.03	0.2	10.748	2.084	32	15	61	61
119	121	ABC	098-#3/0 A	7.29Y	121.5	1.13	4.45	68.23	23	1500	145	100	12.41	0.8	6.201	1.328	123	55	36	586
C OCR-118	119	C	006-35-H	7.29Y	121.5	0.00	4.45	34.67	99	230	105	91	0.00	0.0	6.201	0.000	0	0	0	109 C
118	OCR-118	C	106-#2 ACS	7.26Y	121.0	0.54	4.99	34.67	19	230	105	91	0.84	0.4	6.703	0.502	45	20	13	109
4921	118	C	106-#2 ACS	7.23Y	120.4	0.59	5.58	27.85	15	184	84	91	0.76	0.4	7.348	0.645	18	8	4	96
4922	4921	C	106-#2 ACS	7.21Y	120.2	0.22	5.80	25.16	14	165	75	91	0.26	0.2	7.612	0.264	9	4	3	92
661	4922	C	106-#2 ACS	7.16Y	119.4	0.82	6.63	23.75	13	156	71	91	0.87	0.6	8.723	1.112	30	14	11	89
OCR-660	661	C	051-140-63	7.16Y	119.4	0.00	6.63	12.55	9	82	37	91	0.00	0.0	8.723	0.000	0	0	0	53
660	OCR-660	C	106-#2 ACS	7.16Y	119.3	0.11	6.74	12.55	7	82	37	91	0.05	0.1	9.118	0.395	57	26	36	53
OCR-4924	660	C	051-140-63	7.16Y	119.3	0.00	6.74	3.82	3	25	11	92	0.00	0.0	9.118	0.000	0	0	0	17
4924	OCR-4924	C	106-#2 ACS	7.15Y	119.2	0.04	6.78	3.82	2	25	11	92	0.00	0.0	9.744	0.626	25	11	17	17
OCR-4923	661	C	051-140-63	7.16Y	119.4	0.00	6.63	6.61	5	43	20	91	0.00	0.0	8.723	0.000	0	0	0	25
4923	OCR-4923	C	110-#4 ACS	7.16Y	119.3	0.04	6.66	6.61	5	43	20	91	0.01	0.0	9.325	0.602	43	19	25	25
OCR-116	119	B	007-50-H	7.29Y	121.5	0.00	4.45	28.28	57	188	85	91	0.00	0.0	6.201	0.000	0	0	0	94
116	OCR-116	B	106-#2 ACS	7.23Y	120.4	1.11	5.57	28.28	16	188	85	91	1.30	0.7	7.633	1.432	75	34	32	94
802	116	B	110-#4 ACS	7.22Y	120.3	0.12	5.69	11.13	8	73	33	91	0.03	0.0	8.811	1.178	73	33	53	53
801	116	B	106-#2 ACS	7.22Y	120.4	0.05	5.62	5.77	3	38	17	91	0.01	0.0	8.167	0.534	38	17	9	9
115	119	ABC	098-#3/0 A	7.27Y	121.1	0.41	4.86	39.65	13	853	-157	-98	3.87	0.5	7.543	1.342	160	72	47	310
113	115	ABC	098-#3/0 A	7.26Y	121.0	0.09	4.95	31.29	10	631	-261	-92	1.09	0.2	8.072	0.530	31	14	7	240
P 900	113	ABC	Capacitor	7.26Y	121.0	0.00	4.95	-25.15	0	0	-548	0	0.00	0.0	8.072	0.000	0	0	0	P
803	113	ABC	098-#3/0 A	7.25Y	120.8	0.26	5.22	30.16	10	598	272	91	1.02	0.2	8.620	0.548	44	20	11	233
231	803	ABC	098-#3/0 A	7.24Y	120.7	0.06	5.27	5.42	2	107	49	91	0.03	0.0	9.909	1.289	107	48	25	25
OCR-114	803	A	006-35-H	7.25Y	120.8	0.00	5.22	15.28	44	101	46	91	0.00	0.0	8.620	0.000	0	0	0	39
114	OCR-114	A	106-#2 ACS	7.20Y	120.0	0.7														

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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
OCR-550	556	C	005- 25-H	7.43Y	123.8	0.00	2.19	12.09	48	85	28	95	0.00	0.0	1.535	0.000	0	0	0	75
550	OCR-550	C	110-#4 ACS	7.43Y	123.8	0.05	2.24	12.09	9	85	28	95	0.01	0.0	2.003	0.468	85	28	75	75
P 4127	556	ABC	098-#3/0 A	7.43Y	123.8	0.00	2.19	0.00	0	0	0	0	0.00	0.0	1.539	0.004	0	0	0	0 P
4050	556	ABC	098-#3/0 A	7.34Y	122.4	1.43	3.62	90.32	30	2006	165	100	21.27	1.1	2.785	1.250	86	28	35	601
FUSE-548	4050	ABC	081-20N FU	7.34Y	122.4	0.00	3.62	10.72	27	215	97	91	0.00	0.0	2.785	0.000	0	0	0	12
548	FUSE-548	ABC	110-#4 ACS	7.34Y	122.3	0.04	3.66	10.72	8	215	97	91	0.03	0.0	3.430	0.644	215	97	12	12
FUSE-500	4050	C	081-20N FU	7.34Y	122.4	0.00	3.62	8.80	22	61	20	95	0.00	0.0	2.785	0.000	0	0	0	32
500	FUSE-500	C	110-#4 ACS	7.34Y	122.3	0.07	3.69	8.80	6	61	20	95	0.02	0.0	3.747	0.962	61	20	32	32
4051	4050	ABC	Regulator	7.56Y	126.0	-3.62	0.00	73.65	34	1622	-5	-100	0.00	0.0	2.785	0.000	0	0	0	522
4052	4051	ABC	098-#3/0 A	7.56Y	125.9	0.07	0.07	71.53	24	1622	-5	-100	0.89	0.1	2.866	0.080	0	0	0	522
C OCR-549	4052	ABC	006- 35-H	7.56Y	125.9	0.00	0.07	71.53	204	1621	-6	-100	0.00	0.0	2.866	0.000	0	0	0	522 C
549	OCR-549	ABC	098-#3/0 A	7.53Y	125.4	0.51	0.58	71.53	24	1621	-6	-100	6.53	0.4	3.475	0.609	63	21	15	522
FUSE-499	549	B	082-25H FU	7.53Y	125.4	0.00	0.58	11.06	22	79	26	95	0.00	0.0	3.475	0.000	0	0	0	28
499	FUSE-499	B	110-#4 ACS	7.52Y	125.3	0.10	0.68	11.06	8	79	26	95	0.03	0.0	4.531	1.056	79	26	28	28
OCR-109	549	A	011- 70-L	7.53Y	125.4	0.00	0.58	35.95	51	256	87	95	0.00	0.0	3.475	0.000	0	0	0	93
109	OCR-109	A	110-#4 ACS	7.46Y	124.4	1.02	1.60	35.95	26	256	87	95	1.16	0.5	5.612	2.137	117	38	35	93
FUSE-110	109	A	082-25H FU	7.46Y	124.4	0.00	1.60	19.52	39	138	46	95	0.00	0.0	5.612	0.000	0	0	0	58
110	FUSE-110	A	110-#4 ACS	7.44Y	124.0	0.44	2.04	19.52	14	138	46	95	0.21	0.2	8.247	2.635	138	45	58	58
OCR-108	549	ABC	012-100-L	7.53Y	125.4	0.00	0.58	54.30	54	1217	-146	-99	0.00	0.0	3.475	0.000	0	0	0	386
108	OCR-108	ABC	098-#3/0 A	7.50Y	125.0	0.43	1.01	54.30	18	1217	-146	-99	4.93	0.4	4.325	0.850	133	44	41	386
107	108	ABC	116-4-ACWC	7.42Y	123.6	1.38	2.39	45.81	25	1007	-220	-98	13.30	1.3	6.358	2.033	354	127	81	291
4000	107	ABC	116-4-ACWC	7.41Y	123.5	0.09	2.49	32.87	18	639	-355	-87	0.94	0.1	6.572	0.224	30	10	4	210
4001	4000	ABC	Capacitor	7.41Y	123.5	0.00	2.49	31.91	0	608	-366	-86	0.00	0.0	6.572	0.000	0	0	0	206
OCR-106	4001	ABC	011- 70-L	7.41Y	123.5	0.00	2.49	28.85	41	608	205	95	0.00	0.0	6.572	0.000	0	0	0	206
106	OCR-106	ABC	098-#3/0 A	7.35Y	122.4	1.08	3.56	28.85	10	608	205	95	3.75	0.6	9.504	2.932	229	75	64	206
OCR-105	106	B	009- 35-L	7.35Y	122.4	0.00	3.56	12.44	36	87	29	95	0.00	0.0	9.504	0.000	0	0	0	76
105	OCR-105	B	106-#2 ACS	7.29Y	121.6	0.88	4.44	12.44	7	87	29	95	0.36	0.4	13.743	4.239	86	28	76	76
104	106	ABC	098-#3/0 A	7.34Y	122.4	0.06	3.63	12.95	4	271	90	95	0.10	0.0	9.830	0.327	44	15	7	62
FUSE-103	104	B	083-30N FU	7.34Y	122.4	0.00	3.63	5.38	9	38	12	95	0.00	0.0	9.830	0.000	0	0	0	4
103	FUSE-103	B	117-#6 A-C	7.32Y	122.0	0.34	3.97	5.38	4	38	12	95	0.07	0.2	12.582	2.752	37	12	4	4
C OCR-99	104	A	006- 35-H	7.34Y	122.4	0.00	3.63	27.14	78	189	63	95	0.00	0.0	9.830	0.000	0	0	0	51 C
99	OCR-99	A	106-#2 ACS	7.21Y	120.1	2.25	5.88	27.14	15	189	63	95	2.43	1.3	13.353	3.523	109	36	35	51
97	99	A	106-#2 ACS	7.20Y	120.0	0.16	6.03	11.30	6	77	25	95	0.06	0.1	14.194	0.841	77	25	16	16
OCR-4801	106	C	005- 25-H	7.35Y	122.4	0.00	3.56	2.51	10	17	6	94	0.00	0.0	9.504	0.000	0	0	0	4
4801	OCR-4801	C	118-#8 A-C	7.35Y	122.4	0.01	3.58	2.51	3	17	6	94	0.00	0.0	9.638	0.134	17	6	4	4
FUSE-545	108	C	080-15N FU	7.50Y	125.0	0.00	1.01	10.11	34	72	24	95	0.00	0.0	4.325	0.000	0	0	0	54
545	FUSE-545	C	110-#4 ACS	7.49Y	124.9	0.10	1.11	10.11	7	72	24	95	0.02	0.0	5.454	1.128	72	24	54	54
P 4053	4050	B	117-#6 A-C	7.34Y	122.4	0.00	3.62	0.00	0	0	2	0	0.00	0.0	2.987	0.202	0	0	0	0 P
Feeder NO. 4 Beginning with Node Element 8814																				
8814	hunt	ABC	Node	7.56Y	126.0	0.00	0.00	33.42	0	750	107	99	0.00	0.0	0.000	0.000	0	0	0	148
791	8814	ABC	098-#3/0 A	7.54Y	125.6	0.35	0.35	33.42	11	750	107	99	1.79	0.2	0.804	0.804	74	10	5	148
75	791	ABC	098-#3/0 A	7.52Y	125.4	0.27	0.62	29.85	10	669	94	99	1.21	0.2	1.499	0.696	82	11	10	142
OCR-647	75	A	006- 35-H	7.52Y	125.4	0.00	0.62	12.69	36	95	13	99	0.00	0.0	1.499	0.000	0	0	0	34
647	OCR-647	A	118-#8 A-C	7.47Y	124.5	0.87	1.49	12.69	13	95	13	99	0.42	0.4	3.606	2.107	94	13	34	34
646	75	ABC	098-#3/0 A	7.51Y	125.1	0.29	0.91	21.97	7	491	69	99	0.97	0.2	2.527	1.027	62	8	6	98
OCR-645	646	C	010- 50-L	7.51Y	125.1	0.00	0.91	34.21	68	254	35	99	0.00	0.0	2.527	0.000	0	0	0	66
645	OCR-645	C	110-#4 ACS	7.49Y	124.8	0.38	1.22	34.21	24	254	35	99	0.32	0.1	3.823	1.297	254	35	66	66
644	646	ABC	098-#3/0 A	7.50Y	125.0	0.05	0.97	7.79	3	174	24	99	0.04	0.0	3.509	0.982	174	24	26	26
4125	791	ABC	098-#3/0 A	7.54Y	125.6	0.00	0.35	0.26	0	6	1	99	0.00	0.0	0.843	0.040	6	1	1	1
Feeder NO. 1 Beginning with Node Element 8811																				
8811	hunt	ABC	Node	7.56Y	126.0	0.00	0.00	104.66	0	2350	335	99	0.00	0.0	0.000	0.000	0	0	0	886
OCR-498	8811	ABC	007- 50-H	7.56Y	126.0	0.00	0.00	0.00	0	0	0	0	0.00	0.0	0.000	0.000	0	0	0	0
498	8811	ABC	098-#3/0 A	7.53Y	125.6	0.44	0.44	104.66	35	2350	335	99	7.13	0.3	0.303	0.303	23	9	6	886
821	498	ABC	098-#3/0 A	7.50Y	125.0	0.57	1.01	88.66	30	1994	197	100	8.04	0.4	0.816	0.513	180	66	25	727
OCR-634	821	C	011- 70-L	7.50Y	125.0	0.00	1.01	25.82	37	181	68	94	0.00	0.0	0.816	0.000	0	0	0	95
634	OCR-634	C	110-#4 ACS	7.48Y	124.6	0.38	1.38	25.82	18	181	68	94	0.28	0.2	1.995	1.180	109	40	45	95
866	634	C	117-#6 A-C	7.47Y	124.5	0.14	1.52	10.28	7	72	27	94	0.05	0.1	2.562	0.566	72	27	50	50
96	821	ABC	098-#3/0 A	7.45Y	124.1	0.90	1.90	72.26	24	1625	54	100	12.05	0.7	1.911	1.096	199	79	53	607
OCR-95	96	ABC	012-100-L	7.45Y	124.1	0.00	1.90	35.42	35	741	276	94	0.00	0.0	1.911	0.000	0	0	0	329
95	OCR-95	ABC	106-#2 ACS	7.40Y	123.3	0.76	2.66	35.42	20	741	276	94	4.04	0.5	2.750	0.838	83			

Balanced Voltage Drop Report
Source: 8810

Database: C:\MILSOFT\DATA\ORIGINAL FROM POE\WINTER MODEL 2005.WM\
Title:
Case:

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		Units Displayed In Volts																Element			
		-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	
88	90	ABC	098-#3/0 A		7.40Y 123.4	0.07	2.61	5.96	2	124	46	94	0.04	0.0	6.478	1.458	124	46	29	29	
OCR-565	92	A	007- 50-H		7.44Y 123.9	0.00	2.06	15.83	32	110	41	94	0.00	0.0	3.230	0.000	0	0	0	78	
565	OCR-565	A	117-#6 A-C		7.42Y 123.7	0.20	2.26	15.83	11	110	41	94	0.11	0.1	3.782	0.552	110	41	78	78	
OCR-820	498	ABC	011- 70-L		7.53Y 125.6	0.00	0.44	15.35	22	325	121	94	0.00	0.0	0.303	0.000	0	0	0	153	
820	OCR-820	ABC	110-#4 ACS		7.52Y 125.4	0.16	0.60	15.35	11	325	121	94	0.24	0.1	1.559	1.256	136	50	87	153	
637	820	ABC	110-#4 ACS		7.52Y 125.4	0.05	0.64	8.92	6	189	70	94	0.03	0.0	2.587	1.028	189	70	66	66	

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total		
KW	8552	0	0	0	0	0	345	0.00	8897	Lowest Voltage = 119.22 on Element 4924	
KVAR	3203	0	-2287	0	0	0	375		1291	Max Accm VoltD = 6.78 on Element 4924	
										Max Elem VoltD = 2.80 on Element 94	

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FALLS OF KOLGAH WINTER BASE

Detail

Balanced Voltage Drop Report
Source: 8160

Database: C:\MILSOFT\DATA\ORIGINAL FROM POB\WINTER MODEL 2005.WM
Title:
Case:

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		Units Displayed In Volts													mi		Element		
		-Base Voltage:120.0-																	
Element Name	Parent Name	Type/ Cnf Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	KW Loss	% Loss	From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
8160		ABC SRC-8160-D	7.56Y	126.0	0.00	0.00	219.06	0	4919	700	99	0.00	0.0	0.000	0.000	0	0	0	1445
	Feeder NO. 4	Beginning with Node Element feeder 4																	
feeder 4	8160	ABC Node	7.56Y	126.0	0.00	0.00	22.28	0	500	72	99	0.00	0.0	0.000	0.000	0	0	0	140
8164	feeder 4	ABC 002-1/0 15	7.56Y	126.0	0.01	0.01	22.28	10	500	72	99	0.02	0.0	0.012	0.012	0	0	0	140
OCR-53	8164	ABC 011- 70-L	7.56Y	126.0	0.00	0.01	22.28	32	500	72	99	0.00	0.0	0.012	0.000	0	0	0	140
53	OCR-53	ABC 098-#3/0 A	7.52Y	125.3	0.67	0.68	22.28	7	500	72	99	2.21	0.4	2.394	2.382	89	4	32	140
4932	53	ABC 110-#4 ACS	7.52Y	125.3	0.00	0.68	6.41	5	136	49	94	0.00	0.0	2.450	0.056	87	47	4	8
4940	4932	ABC 090-336 AC	7.52Y	125.3	0.00	0.68	2.17	0	49	2	100	0.00	0.0	2.856	0.406	31	1	2	4
4942	4940	ABC 602-1/OAL	7.52Y	125.3	0.00	0.69	0.80	0	18	1	100	0.00	0.0	2.967	0.111	0	0	0	2
4943	4942	ABC 602-1/OAL	7.52Y	125.3	0.00	0.69	0.80	0	18	1	100	0.00	0.0	3.133	0.166	0	0	0	2
4946	4943	ABC 602-1/OAL	7.52Y	125.3	0.00	0.69	0.80	0	18	1	100	0.00	0.0	3.250	0.117	18	1	2	2
610	53	ABC 098-#3/0 A	7.51Y	125.2	0.07	0.75	12.10	4	273	16	100	0.15	0.1	2.882	0.489	9	1	4	100
OCR-609	610	B 049-100-63	7.51Y	125.2	0.00	0.75	2.99	3	22	1	100	0.00	0.0	2.882	0.000	0	0	0	9
609	OCR-609	B 118-#8 A-C	7.50Y	125.0	0.22	0.97	2.99	3	22	1	100	0.03	0.1	5.211	2.329	22	1	9	9
40	610	ABC 098-#3/0 A	7.50Y	125.0	0.28	1.03	10.70	4	241	13	100	0.48	0.2	5.098	2.216	35	2	10	87
44	40	ABC 098-#3/0 A	7.48Y	124.7	0.27	1.31	9.12	3	205	11	100	0.36	0.2	8.105	3.006	88	4	38	77
OCR-43	44	C 006- 35-H	7.48Y	124.7	0.00	1.31	13.68	39	102	5	100	0.00	0.0	8.105	0.000	0	0	0	30
43	OCR-43	C 106-#2 ACS	7.45Y	124.1	0.56	1.86	13.68	8	102	5	100	0.41	0.4	9.678	1.573	18	1	3	30
FUSE-42	43	C 081-20N FU	7.45Y	124.1	0.00	1.86	11.20	28	83	4	100	0.00	0.0	9.678	0.000	0	0	0	27
42	FUSE-42	C 110-#4 ACS	7.44Y	124.0	0.18	2.05	11.20	8	83	4	100	0.07	0.1	12.433	2.756	83	4	27	27
OCR-772	44	C 049-100-63	7.48Y	124.7	0.00	1.31	1.35	1	10	0	100	0.00	0.0	8.105	0.000	0	0	0	5
772	OCR-772	C 106-#2 ACS	7.48Y	124.6	0.06	1.36	1.35	1	10	0	100	0.00	0.0	11.016	2.911	10	0	5	5
OCR-45	44	B 049-100-63	7.48Y	124.7	0.00	1.31	0.53	1	4	0	100	0.00	0.0	8.105	0.000	0	0	0	4
45	OCR-45	B 106-#2 ACS	7.48Y	124.7	0.01	1.32	0.53	0	4	0	100	0.00	0.0	9.670	1.566	4	0	4	4
	Feeder NO. 3	Beginning with Node Element feeder3																	
feeder3	8160	ABC Node	7.56Y	126.0	0.00	0.00	129.05	0	2898	411	99	0.00	0.0	0.000	0.000	0	0	0	1002
C 8163	feeder3	ABC 002-1/0 15	7.56Y	126.0	0.03	0.03	129.05	57	2898	411	99	0.68	0.0	0.012	0.012	0	0	0	1002 C
4829	8163	ABC 090-336 AC	7.54Y	125.7	0.25	0.28	129.05	24	2897	411	99	4.39	0.2	0.339	0.327	102	35	15	1002
OCR-834	4829	C 049-100-63	7.54Y	125.7	0.00	0.28	0.00	0	0	0	0	0.00	0.0	0.339	0.000	0	0	0	0
P 834	OCR-834	C 118-#8 A-C	7.54Y	125.7	0.00	0.28	0.00	0	0	0	0	0.00	0.0	1.035	0.697	0	0	0	0 P
816	4829	ABC 098-#3/0 A	7.53Y	125.5	0.26	0.54	124.37	41	2791	365	99	5.18	0.2	0.493	0.155	0	0	0	987
819	816	ABC Capacitor	7.53Y	125.5	0.00	0.54	124.37	0	2785	359	99	0.00	0.0	0.493	0.000	0	0	0	987
64	819	ABC 098-#3/0 A	7.39Y	123.1	2.37	2.91	130.29	43	2785	948	95	41.84	1.5	1.676	1.182	131	42	115	987
C 8166	64	ABC 011- 70-L	7.39Y	123.1	0.00	2.91	124.13	177	2613	859	95	0.00	0.0	1.676	0.000	0	0	0	872 C
66	OCR-66	ABC 098-#3/0 A	7.28Y	121.3	1.80	4.71	124.13	41	2613	859	95	30.64	1.2	2.624	0.949	106	34	26	872
826	66	ABC Capacitor	7.28Y	121.3	0.00	4.71	104.30	0	2170	690	95	0.00	0.0	2.624	0.000	0	0	0	607
639	826	ABC 098-#3/0 A	7.21Y	120.2	1.09	5.81	105.30	35	2170	759	94	15.64	0.7	3.288	0.664	54	17	15	607
OCR-638	639	B 060-35-4H	7.21Y	120.2	0.00	5.81	7.21	21	49	16	95	0.00	0.0	3.288	0.000	0	0	0	45
638	OCR-638	B 110-#4 ACS	7.21Y	120.1	0.08	5.88	7.21	5	49	16	95	0.01	0.0	4.552	1.263	49	16	45	45
4833	639	ABC 098-#3/0 A	7.20Y	120.0	0.22	6.03	97.89	33	2001	692	95	2.98	0.1	3.432	0.143	0	0	0	529
4834	4833	ABC Regulator	7.56Y	126.0	-6.03	0.00	97.89	45	1999	689	95	0.00	0.0	3.432	0.000	0	0	0	529
4835	4834	ABC 098-#3/0 A	7.54Y	125.7	0.32	0.32	93.21	31	1999	689	95	4.01	0.2	3.648	0.217	44	14	8	529
68	4835	ABC 098-#3/0 A	7.47Y	124.4	1.25	1.57	91.15	30	1950	670	95	15.26	0.8	4.561	0.912	172	55	71	521
FUSE-805	68	ABC 082-25N FU	7.47Y	124.4	0.00	1.57	15.01	30	248	227	74	0.00	0.0	4.561	0.000	0	0	0	13
805	FUSE-805	ABC 106-#2 ACS	7.46Y	124.3	0.16	1.73	15.01	8	248	227	74	0.25	0.1	5.342	0.781	248	226	13	13
OCR-559	68	A 049-100-63	7.47Y	124.4	0.00	1.57	45.18	45	321	104	95	0.00	0.0	4.561	0.000	0	0	0	88
559	OCR-559	A 118-#8 A-C	7.23Y	120.5	3.93	5.51	45.18	45	321	104	95	9.31	2.9	5.985	1.424	55	18	13	88
67	559	A 118-#8 A-C	7.23Y	120.4	0.05	5.55	3.00	3	21	7	95	0.01	0.0	6.460	0.475	21	7	3	3
825	559	A 118-#8 A-C	7.22Y	120.3	0.21	5.72	6.45	6	44	14	95	0.05	0.1	6.976	0.991	44	14	6	6
642	559	A 118-#8 A-C	7.20Y	120.0	0.54	6.05	15.55	16	107	35	95	0.31	0.3	7.024	1.039	107	34	38	38
560	559	A 110-#4 ACS	7.22Y	120.3	0.15	5.65	12.26	9	84	27	95	0.05	0.1	7.413	1.428	84	27	28	28
FUSE-74	68	ABC 085-50W FU	7.47Y	124.4	0.00	1.57	54.61	55	1194	267	98	0.00	0.0	4.561	0.000	0	0	0	349
74	FUSE-74	ABC 098-#3/0 A	7.43Y	123.9	0.53	2.10	54.61	18	1194	267	98	4.24	0.4	5.245	0.684	53	24	26	349
954	74	ABC Capacitor	7.43Y	123.9	0.00	2.10	52.05	0	1136	238	98	0.00	0.0	5.245	0.000	0	0	0	323
811	954	ABC 098-#3/0 A	7.40Y	123.3	0.58	2.68	53.74	18	1136	382	95	4.23	0.4	5.934	0.690	28	9	4	323
501	811	ABC 098-#3/0 A	7.37Y	122.8	0.50	3.18	34.35	11	723	243	95	2.34	0.3	6.883	0.948	31	10	3	165
71	501	ABC 100-#2/0 A	7.31Y	121.8	1.06	4.24	32.88	12	689	231	95	4.75	0.7	8.957	2.074	0	0	0	162
OCR-824	71	C 050-140-11	7.31Y	121.8	0.00	4.24	0.00	0	0	0	0	0.00	0.0	8.957	0.000	0	0	0	0
P 824	OCR-824	C 118-#8 A-C	7.31Y	121.8	0.00	4.24	0.00	0	0	0	0	0.00	0.0	9.475	0.518	0	0	0	0 P
OCR-69	71	B 007- 50-H	7.31Y	121.8	0.00	4.24	10.69	21	74	24	95	0.00	0.0	8.957	0.000	0	0	0	12
69	OCR-69	B 118-#8 A-C	7.28Y	121.4	0.36	4.60	10.69	11	74	24	95	0.14	0.2	9.965	1.008				

Balanced Voltage Drop Report
Source: 8160

Detail

Database: C:\HILSOFT\DATA\ORIGINAL FROM POB\WINTER MODEL 2005.WM
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Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Units Displayed In Volts										mi		Element	
							Accum Drop	Thru Amps	% Cap	Thru KW	% KVAR	% PF	% Loss	% Loss	From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
4033	66	ABC	098-#3/0 A	7.28Y	121.3	0.01	4.73	14.77	5	307	100	95	0.03	0.0	2.678	0.054	0	0	0	239
65	4033	ABC	098-#3/0 A	7.26Y	121.0	0.26	4.98	14.77	5	307	100	95	0.51	0.2	3.823	1.144	21	7	30	239
828	65	ABC	102-#1/0 A	7.25Y	120.8	0.20	5.18	13.75	6	285	92	95	0.38	0.1	4.654	0.831	32	10	26	209
827	828	C	117-#6 A-C	7.24Y	120.7	0.16	5.34	8.58	6	59	19	95	0.05	0.1	5.478	0.824	59	19	47	47
OCR-571	828	B	007-50-H	7.25Y	120.8	0.00	5.18	13.69	27	94	30	95	0.00	0.0	4.654	0.000	0	0	0	58
571	OCR-571	B	110-#4 ACS	7.24Y	120.7	0.11	5.29	13.69	10	94	30	95	0.04	0.0	5.582	0.928	94	30	58	58
OCR-570	828	B	006-35-H	7.25Y	120.8	0.00	5.18	14.38	41	99	32	95	0.00	0.0	4.654	0.000	0	0	0	78
570	OCR-570	B	117-#6 A-C	7.24Y	120.6	0.23	5.41	14.38	10	99	32	95	0.12	0.1	5.338	0.684	99	32	78	78
Feeder NO. 2		Beginning with Node Element feeder 2																		
feeder 2	8160	ABC	Node	7.56Y	126.0	0.00	0.00	32.09	0	720	103	99	0.00	0.0	0.000	0.000	0	0	0	160
8162	feeder 2	ABC	002-1/0 15	7.56Y	126.0	0.01	0.01	32.09	14	720	103	99	0.04	0.0	0.012	0.012	0	0	0	160
4831	8162	ABC	090-336 AC	7.56Y	125.9	0.07	0.07	32.09	6	720	103	99	0.29	0.0	0.347	0.335	0	0	0	160
4035	4831	ABC	098-#3/0 A	7.55Y	125.9	0.02	0.10	32.09	11	720	102	99	0.12	0.0	0.401	0.054	0	0	0	160
62	4035	ABC	098-#3/0 A	7.53Y	125.5	0.44	0.53	32.09	11	720	102	99	2.07	0.3	1.476	1.075	122	17	26	160
OCR-61	62	B	011-70-L	7.53Y	125.5	0.00	0.53	9.84	14	73	10	99	0.00	0.0	1.476	0.000	0	0	0	25
61	OCR-61	B	118-#8 A-C	7.50Y	125.0	0.48	1.01	9.84	10	73	10	99	0.22	0.3	2.476	0.999	37	5	13	25
558	61	B	118-#8 A-C	7.49Y	124.8	0.15	1.16	4.87	5	36	5	99	0.03	0.1	3.410	0.934	36	5	12	12
1600	62	ABC	098-#3/0 A	7.52Y	125.4	0.10	0.63	23.38	8	523	73	99	0.36	0.1	1.780	0.304	0	0	0	109
OCR-1603	1600	A	006-35-H	7.52Y	125.4	0.00	0.63	25.15	72	187	26	99	0.00	0.0	1.780	0.000	0	0	0	37
1603	OCR-1603	A	106-#2 ACS	7.52Y	125.3	0.06	0.70	25.15	14	187	26	99	0.09	0.0	1.864	0.084	0	0	0	37
OCR-836	1603	A	051-140-63	7.52Y	125.3	0.00	0.70	9.61	7	72	10	99	0.00	0.0	1.864	0.000	0	0	0	9
836	OCR-836	A	106-#2 ACS	7.52Y	125.3	0.03	0.72	9.61	5	72	10	99	0.01	0.0	1.971	0.108	16	2	1	9
508	836	A	118-#8 A-C	7.50Y	125.0	0.25	0.98	7.43	7	55	8	99	0.07	0.1	3.022	1.050	55	8	8	8
FUSE-56	1603	A	082-25N FU	7.52Y	125.3	0.00	0.70	15.55	31	116	16	99	0.00	0.0	1.864	0.000	0	0	0	28
56	FUSE-56	A	118-#8 A-C	7.47Y	124.5	0.82	1.52	15.55	16	116	16	99	0.63	0.5	2.903	1.039	50	7	11	28
OCR-54	56	A	047-70-63	7.47Y	124.5	0.00	1.52	8.78	13	65	9	99	0.00	0.0	2.903	0.000	0	0	0	17
54	OCR-54	A	118-#8 A-C	7.40Y	123.4	1.12	2.64	8.78	9	65	9	99	0.43	0.7	6.005	3.102	47	6	10	17
OCR-844	54	A	047-70-63	7.40Y	123.4	0.00	2.64	2.34	3	17	2	99	0.00	0.0	6.005	0.000	0	0	0	7
844	OCR-844	A	118-#8 A-C	7.40Y	123.3	0.09	2.73	2.34	2	17	2	99	0.01	0.0	7.174	1.169	17	2	7	7
1601	1600	ABC	098-#3/0 A	7.51Y	125.1	0.26	0.89	15.00	5	335	47	99	0.56	0.2	3.204	1.424	82	11	16	72
1602	1601	ABC	098-#3/0 A	7.50Y	125.0	0.09	0.98	11.32	4	253	35	99	0.16	0.1	3.833	0.628	32	4	6	56
OCR-846	1602	A	006-35-H	7.50Y	125.0	0.00	0.98	15.35	44	114	16	99	0.00	0.0	3.833	0.000	0	0	0	33
846	OCR-846	A	118-#8 A-C	7.44Y	124.0	1.05	2.03	15.35	15	114	16	99	0.61	0.5	5.930	2.098	113	15	33	33
OCR-59	1602	C	006-35-H	7.50Y	125.0	0.00	0.98	4.10	12	31	4	99	0.00	0.0	3.833	0.000	0	0	0	5
59	OCR-59	C	118-#8 A-C	7.48Y	124.6	0.37	1.35	4.10	4	31	4	99	0.06	0.2	6.618	2.786	30	4	5	5
OCR-55	1602	C	006-35-H	7.50Y	125.0	0.00	0.98	10.23	29	76	10	99	0.00	0.0	3.833	0.000	0	0	0	12
55	OCR-55	C	118-#8 A-C	7.46Y	124.4	0.65	1.63	10.23	10	76	10	99	0.31	0.4	5.164	1.332	40	6	4	12
845	55	C	118-#8 A-C	7.44Y	124.1	0.29	1.93	4.78	5	35	5	99	0.05	0.2	7.054	1.890	35	5	8	8
Feeder NO. 1		Beginning with Node Element feeder 1																		
feeder 1	8160	ABC	Node	7.56Y	126.0	0.00	0.00	35.65	0	800	114	99	0.00	0.0	0.000	0.000	0	0	0	143
8161	feeder 1	ABC	002-1/0 15	7.56Y	126.0	0.01	0.01	35.65	16	800	114	99	0.05	0.0	0.012	0.012	0	0	0	143
4832	8161	ABC	090-336 AC	7.56Y	125.9	0.07	0.08	35.65	7	800	114	99	0.35	0.0	0.344	0.332	0	0	0	143
OCR-63	4832	ABC	007-50-H	7.56Y	125.9	0.00	0.08	35.65	71	800	114	99	0.00	0.0	0.344	0.000	0	0	0	143
63	OCR-63	ABC	098-#3/0 A	7.51Y	125.1	0.82	0.90	35.65	12	800	114	99	4.48	0.6	1.980	1.636	31	-61	40	143
OCR-57	63	C	050-140-11	7.51Y	125.1	0.00	0.90	1.50	1	5	-10	-45	0.00	0.0	1.980	0.000	0	0	0	13
P 57	OCR-57	C	117-#6 A-C	7.51Y	125.1	-0.00	0.90	1.50	1	5	-10	-45	0.00	0.0	3.288	1.307	5	-10	13	13 P
815	63	ABC	098-#3/0 A	7.48Y	124.7	0.43	1.34	34.64	12	759	180	97	2.17	0.3	2.819	0.838	25	-35	30	90
OCR-557	815	A	010-50-L	7.48Y	124.7	0.00	1.34	5.96	12	20	-40	-45	0.00	0.0	2.819	0.000	0	0	0	53
P 557	OCR-557	A	110-#4 ACS	7.48Y	124.7	-0.07	1.26	5.96	4	20	-40	-45	0.01	0.1	4.435	1.616	20	-40	53	53 P
P 91	815	ABC	098-#3/0 A	7.48Y	124.7	-0.00	1.34	0.32	0	3	-6	-45	0.00	0.0	3.305	0.486	3	-6	3	3 P
P 814	815	ABC	Regulator	7.56Y	126.0	-1.34	0.00	0.00	0	0	0	0	0.00	0.0	2.819	0.000	0	0	0	0 P
818	815	ABC	098-#3/0 A	7.47Y	124.5	0.13	1.46	32.91	11	694	254	94	0.38	0.1	3.302	0.483	693	253	2	2
817	815	ABC	098-#3/0 A	7.48Y	124.7	0.00	1.34	0.66	0	14	5	94	0.00	0.0	3.199	0.380	14	5	2	2

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	4743	0	0	0	0	0	176	0.00	4919	Lowest Voltage = 117.89 on Element 126		
KVAR	1309	0	-801	0	0	0	192		700	Max Accm VoltD = 8.11 on Element 126		
										Max Elem VoltD = 3.93 on Element 559		

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IRVINGTON WINTER USE

Detail

Balanced Voltage Drop Report Source: 8800

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Case:

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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	
8800	Feeder NO. 6	Beginning with Node	ABC SRC-8800-D	7.56Y	126.0	0.00	0.00	401.50	0	8770	2450	96	0.00	0.0	0.000	0.000	0	0	0	2162
8806	8800	ABC Node	ABC SRC-8800-D	7.56Y	126.0	0.00	0.00	82.58	0	1779	585	95	0.00	0.0	0.000	0.000	0	0	0	426
394	8806	ABC	113-2F 7/1	7.39Y	123.2	2.75	2.75	82.58	49	1779	585	95	32.61	1.8	1.821	1.821	1	1	2	426
H 991	394	ABC	Regulator	7.56Y	126.0	-2.75	-0.00	51.89	24	1125	242	98	0.00	0.0	1.821	0.000	0	0	0	416 H
990	991	ABC	116-4-ACWC	7.50Y	125.0	0.98	0.98	50.76	28	1125	242	98	8.16	0.7	2.578	0.757	4	0	2	416
OCR-897	990	ABC	012-100-L	7.50Y	125.0	0.00	0.98	20.88	21	469	27	100	0.00	0.0	2.578	0.000	0	0	0	210
897	OCR-897	ABC	098-#3/0 A	7.49Y	124.9	0.15	1.13	20.88	7	469	27	100	0.52	0.1	3.126	0.548	1	0	1	210
393	897	ABC	098-#3/0 A	7.47Y	124.5	0.36	1.49	20.86	7	468	26	100	1.26	0.3	4.465	1.339	42	2	19	209
391	393	ABC	098-#3/0 A	7.46Y	124.3	0.22	1.70	18.97	6	424	23	100	0.69	0.2	5.355	0.890	29	6	9	190
OCR-390	391	A	006-35-H	7.46Y	124.3	0.00	1.70	9.77	28	73	3	100	0.00	0.0	5.355	0.000	0	0	0	39
390	OCR-390	A	100-#2/0 A	7.43Y	123.8	0.52	2.23	9.77	4	73	3	100	0.29	0.4	8.736	3.381	72	3	39	39
389	391	ABC	098-#3/0 A	7.45Y	124.2	0.10	1.81	14.40	5	322	13	100	0.26	0.1	5.931	0.576	0	0	0	142
388	389	ABC	098-#3/0 A	7.45Y	124.1	0.08	1.88	6.43	2	144	6	100	0.09	0.1	6.897	0.966	27	1	9	60
1405	388	B	106-#2 ACS	7.45Y	124.1	0.00	1.89	2.55	1	19	1	100	0.00	0.0	6.948	0.051	0	0	0	11
OCR-1406	1405	B	061-50-4H	7.45Y	124.1	0.00	1.89	2.55	5	19	1	100	0.00	0.0	6.948	0.000	0	0	0	11
1406	OCR-1406	B	106-#2 ACS	7.44Y	124.0	0.07	1.96	2.55	1	19	1	100	0.01	0.1	7.898	0.950	19	1	11	11
1388	388	ABC	098-#3/0 A	7.45Y	124.1	0.02	1.90	4.39	1	98	4	100	0.01	0.0	7.203	0.306	22	1	7	40
1389	1388	ABC	098-#3/0 A	7.45Y	124.1	0.00	1.90	3.41	1	76	3	100	0.00	0.0	7.274	0.071	20	1	5	33
1403	1389	A	106-#2 ACS	7.44Y	124.0	0.07	1.98	4.99	3	37	1	100	0.02	0.1	7.802	0.528	20	1	12	19
1404	1403	A	117-#6 A-C	7.44Y	124.0	0.03	2.00	2.37	2	18	1	100	0.00	0.0	8.059	0.257	18	1	7	7
OCR-1400	1389	C	006-35-H	7.45Y	124.1	0.00	1.90	2.60	7	19	1	100	0.00	0.0	7.274	0.000	0	0	0	9
1400	OCR-1400	C	110-#4 ACS	7.44Y	124.1	0.01	1.92	2.60	2	19	1	100	0.00	0.0	7.763	0.489	18	1	7	9
1401	1400	C	098-#3/0 A	7.44Y	124.1	0.00	1.92	0.23	0	2	0	100	0.00	0.0	8.134	0.371	2	0	2	2
P 1402	1401	C	098-#3/0 A	7.44Y	124.1	0.00	1.92	0.00	0	0	0	0	0.00	0.0	8.433	0.300	0	0	0	0 P
4931	389	ABC	116-4-ACWC	7.44Y	123.9	0.26	2.06	7.97	4	178	7	100	0.36	0.2	7.299	1.369	37	1	16	82
387	4931	ABC	116-4-ACWC	7.43Y	123.8	0.13	2.19	6.31	4	141	6	100	0.14	0.1	8.152	0.853	58	2	20	66
386	387	ABC	116-4-ACWC	7.42Y	123.7	0.10	2.29	3.72	2	83	3	100	0.06	0.1	9.276	1.123	27	1	13	46
OCR-385	386	A	006-35-H	7.42Y	123.7	0.00	2.29	7.56	22	56	2	100	0.00	0.0	9.276	0.000	0	0	0	33
385	OCR-385	A	117-#6 A-C	7.38Y	123.0	0.70	3.00	7.56	5	56	2	100	0.31	0.6	11.500	2.224	56	2	33	33
514	990	ABC	098-#3/0 A	7.49Y	124.9	0.13	1.12	30.13	10	644	211	95	0.56	0.1	2.861	0.284	12	0	5	204
OCR-376	514	C	007-50-H	7.49Y	124.9	0.00	1.12	12.29	25	92	4	100	0.00	0.0	2.861	0.000	0	0	0	67
376	OCR-376	C	117-#6 A-C	7.42Y	123.6	1.28	2.40	12.29	9	92	4	100	0.92	1.0	5.353	2.491	91	4	67	67
707	514	ABC	098-#3/0 A	7.49Y	124.8	0.12	1.24	25.71	9	540	206	93	0.43	0.1	3.162	0.300	342	197	18	132
OCR-382	707	A	011-70-L	7.49Y	124.8	0.00	1.24	16.78	24	125	6	100	0.00	0.0	3.162	0.000	0	0	0	76
382	OCR-382	A	106-#2 ACS	7.44Y	124.0	0.80	2.04	16.78	9	125	6	100	0.78	0.6	4.846	1.685	60	2	37	76
OCR-380	382	A	051-140-63	7.44Y	124.0	0.00	2.04	8.70	6	65	3	100	0.00	0.0	4.846	0.000	0	0	0	39
380	OCR-380	A	106-#2 ACS	7.40Y	123.3	0.70	2.74	8.70	5	65	3	100	0.36	0.5	7.701	2.855	50	2	30	39
OCR-381	380	A	051-140-63	7.40Y	123.3	0.00	2.74	1.95	1	14	1	100	0.00	0.0	7.701	0.000	0	0	0	9
381	OCR-381	A	118-#8 A-C	7.38Y	123.0	0.25	2.99	1.95	2	14	1	100	0.03	0.2	9.695	1.994	14	1	9	9
OCR-379	707	ABC	007-50-H	7.49Y	124.8	0.00	1.24	3.20	6	72	3	100	0.00	0.0	3.162	0.000	0	0	0	38
379	OCR-379	ABC	098-#3/0 A	7.48Y	124.7	0.02	1.27	3.20	1	72	3	100	0.01	0.0	3.779	0.618	26	1	5	38
FUSE-378	379	B	083-30N FU	7.48Y	124.7	0.00	1.27	4.94	8	37	1	100	0.00	0.0	3.779	0.000	0	0	0	22
378	FUSE-378	B	117-#6 A-C	7.46Y	124.4	0.38	1.64	4.94	4	37	1	100	0.11	0.3	5.612	1.833	37	1	22	22
377	379	ABC	098-#3/0 A	7.48Y	124.7	0.01	1.28	0.38	0	9	0	100	0.00	0.0	6.052	2.272	9	0	11	11
823	394	ABC	116-4-ACWC	7.37Y	122.9	0.38	3.13	31.25	17	620	310	89	1.86	0.3	2.275	0.454	618	309	8	8
Feeder NO. 5	Beginning with Node	Element	8805																	
8805	8800	ABC Node	ABC SRC-8800-D	7.56Y	126.0	0.00	0.00	65.79	0	1417	467	95	0.00	0.0	0.000	0.000	0	0	0	296
405	8805	ABC	098-#3/0 A	7.47Y	124.4	1.55	1.55	65.79	22	1417	467	95	14.14	1.0	1.506	1.506	359	197	48	296
OCR-404	405	C	009-35-L	7.47Y	124.4	0.00	1.55	1.19	3	9	1	99	0.00	0.0	1.506	0.000	0	0	0	2
404	OCR-404	C	117-#6 A-C	7.46Y	124.3	0.10	1.65	1.19	1	9	1	99	0.01	0.0	3.410	1.904	9	1	2	2
403	405	ABC	098-#3/0 A	7.40Y	123.4	1.06	2.62	44.93	15	977	242	97	6.95	0.7	3.093	1.587	238	107	31	230
OCR-402	403	B	007-50-H	7.40Y	123.4	0.00	2.62	26.83	54	196	34	99	0.00	0.0	3.093	0.000	0	0	0	64
402	OCR-402	B	106-#2 ACS	7.29Y	121.6	1.82	4.43	26.83	15	196	34	99	2.59	1.3	5.285	2.192	66	11	22	64
FUSE-401	402	B	083-30N FU	7.29Y	121.6	0.00	4.43	11.38	19	82	14	99	0.00	0.0	5.285	0.000	0	0	0	29
401	FUSE-401	B	117-#6 A-C	7.25Y	120.9	0.72	5.15	11.38	8	82	14	99	0.45	0.6	6.704	1.419	44	7	17	29
396	401	B	117-#6 A-C	7.23Y	120.5	0.38	5.53	5.29	4	38	6	99	0.11	0.3	8.342	1.638	38	6	12	12
400	402	B	106-#2 ACS	7.28Y	121.3	0.27	4.70	6.21	3	45	7	99	0.09	0.2	6.716	1.431	45	7	13	13
FUSE-399	403	ABC	083-30N FU	7.40Y	123.4	0.00	2.62	21.26	35	465	81	99	0.00	0.0	3.093	0.000	0	0	0	119
399	FUSE-399	ABC	098-#3/0 A	7.39Y	123.2	0.23	2.84	21.26	7	465										

Balanced Voltage Drop Report
Source: 8800

Database: C:\MILSOFT\DATA\ORIGINAL FROM POE\DPOE2.WM
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Units Displayed In Volts																mi		Element		
-Base Voltage:120.0-																From	Length	Cons	Cons	
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	Src	(mi)	KW	KVAR	On	Thru
OCR-413	4115	C	061-50-4H	7.42Y	123.6	0.00	2.38	27.50	55	201	34	99	0.00	0.0	3.049	0.000	0	0	0	53
413	OCR-413	C	106-#2 ACS	7.34Y	122.3	1.35	3.73	27.50	15	201	34	99	1.98	1.0	4.644	1.595	199	32	53	53
4131	4115	ABC	106-#2 ACS	7.41Y	123.6	0.04	2.42	4.77	3	105	17	99	0.03	0.0	3.372	0.323	16	3	3	28
OCR-4132	4131	B	061-50-4H	7.41Y	123.6	0.00	2.42	12.17	24	89	15	99	0.00	0.0	3.372	0.000	0	0	0	25
4132	OCR-4132	B	106-#2 ACS	7.41Y	123.5	0.09	2.50	12.17	7	89	15	99	0.06	0.1	3.604	0.231	0	0	0	25
4133	4132	B	106-#2 ACS	7.39Y	123.1	0.36	2.86	12.17	7	89	15	99	0.23	0.3	4.560	0.957	3	1	1	25
OCR-4144	4133	B	051-140-63	7.39Y	123.1	0.00	2.86	11.72	8	85	14	99	0.00	0.0	4.560	0.000	0	0	0	24
4144	OCR-4144	B	106-#2 ACS	7.37Y	122.8	0.35	3.21	11.72	7	85	14	99	0.22	0.3	5.538	0.978	85	14	24	24
OCR-4104	4103	A	010- 50-L	7.43Y	123.8	0.00	2.24	23.22	46	170	28	99	0.00	0.0	2.667	0.000	0	0	0	39
4104	OCR-4104	A	106-#2 ACS	7.40Y	123.3	0.42	2.66	23.22	13	170	28	99	0.52	0.3	3.257	0.590	52	8	3	39
732	4104	A	118-#8 A-C	7.31Y	121.9	1.49	4.15	16.11	16	118	19	99	1.36	1.2	4.666	1.409	116	19	36	36
525	427	C	110-#4 ACS	7.43Y	123.8	0.18	2.21	12.49	9	92	15	99	0.10	0.1	3.339	1.030	92	15	15	15
OCR-426	4080	C	049-100-63	7.49Y	124.8	0.00	1.19	19.92	20	147	24	99	0.00	0.0	1.292	0.000	0	0	0	63
426	OCR-426	C	118-#8 A-C	7.48Y	124.7	0.14	1.33	19.92	20	147	24	99	0.16	0.1	1.401	0.109	147	24	63	63
----- Feeder NO. 3 Beginning with Node Element 8803																				
8803	8800	ABC	Node	7.56Y	126.0	0.00	0.00	54.48	0	1199	301	97	0.00	0.0	0.000	0.000	0	0	0	376
428	8803	ABC	102-#1/0 A	7.53Y	125.4	0.58	0.58	54.48	24	1199	301	97	4.74	0.4	0.600	0.600	348	125	122	376
FUSE-729	428	ABC	083-30W FU	7.53Y	125.4	0.00	0.58	24.53	41	550	67	99	0.00	0.0	0.600	0.000	0	0	0	142
729	FUSE-729	ABC	106-#2 ACS	7.51Y	125.2	0.18	0.76	24.53	14	550	67	99	0.75	0.1	0.895	0.295	140	11	61	142
4101	729	ABC	106-#2 ACS	7.51Y	125.2	0.01	0.77	13.72	8	308	24	100	0.02	0.0	0.915	0.020	0	0	0	70
OCR-4102	4101	ABC	012-100-L	7.51Y	125.2	0.00	0.77	13.72	14	308	24	100	0.00	0.0	0.915	0.000	0	0	0	70
4102	OCR-4102	ABC	098-#3/0 A	7.51Y	125.2	0.03	0.79	13.72	5	308	24	100	0.06	0.0	1.058	0.142	62	5	9	70
OCR-730	4102	ABC	061-50-4H	7.51Y	125.2	0.00	0.79	10.97	22	246	19	100	0.00	0.0	1.058	0.000	0	0	0	61
730	OCR-730	ABC	118-#8 A-C	7.50Y	125.0	0.23	1.03	10.97	11	246	19	100	0.45	0.2	1.412	0.354	26	2	4	61
OCR-733	730	ABC	051-140-63	7.50Y	125.0	0.00	1.03	9.80	7	220	17	100	0.00	0.0	1.412	0.000	0	0	0	57
733	OCR-733	ABC	118-#8 A-C	7.46Y	124.4	0.56	1.59	9.80	10	220	17	100	0.98	0.4	2.381	0.969	99	8	28	57
OCR-4105	733	A	050-140-11	7.46Y	124.4	0.00	1.59	9.71	7	72	6	100	0.00	0.0	2.381	0.000	0	0	0	14
4105	OCR-4105	A	106-#2 ACS	7.45Y	124.2	0.18	1.77	9.71	5	72	6	100	0.10	0.1	3.034	0.653	72	6	14	14
OCR-1733	733	C	007- 50-H	7.46Y	124.4	0.00	1.59	6.39	13	48	4	100	0.00	0.0	2.381	0.000	0	0	0	15
1733	OCR-1733	C	118-#8 A-C	7.43Y	123.9	0.54	2.13	6.39	6	48	4	100	0.20	0.4	3.698	1.317	47	4	15	15
4100	729	ABC	118-#8 A-C	7.51Y	125.2	0.03	0.79	4.68	5	101	32	95	0.02	0.0	0.986	0.091	101	32	11	11
FUSE-728	428	ABC	080-15W FU	7.53Y	125.4	0.00	0.58	13.89	46	296	104	94	0.00	0.0	0.600	0.000	0	0	0	112
728	FUSE-728	ABC	098-#3/0 A	7.52Y	125.3	0.12	0.70	13.89	5	296	104	94	0.23	0.1	1.152	0.552	296	104	112	112
P 4114	728	ABC	110-#4 ACS	7.52Y	125.3	0.00	0.70	0.00	0	0	0	0	0.00	0.0	1.179	0.028	0	0	0	0 P
----- Feeder NO. 2 Beginning with Node Element 8802																				
8802	8800	ABC	Node	7.56Y	126.0	0.00	0.00	84.44	0	1858	466	97	0.00	0.0	0.000	0.000	0	0	0	426
488	8802	ABC	098-#3/0 A	7.48Y	124.7	1.27	1.27	84.44	28	1858	466	97	15.56	0.8	1.006	1.006	143	32	19	426
424	488	ABC	098-#3/0 A	7.42Y	123.7	1.08	2.35	67.90	23	1480	367	97	10.65	0.7	2.071	1.065	137	30	23	336
OCR-423	424	A	049-100-63	7.42Y	123.7	0.00	2.35	4.29	4	31	7	98	0.00	0.0	2.071	0.000	0	0	0	9
423	OCR-423	A	117-#6 A-C	7.41Y	123.5	0.13	2.48	4.29	3	31	7	98	0.03	0.1	2.721	0.650	31	7	9	9
422	424	ABC	098-#3/0 A	7.35Y	122.4	1.20	3.55	60.19	20	1301	318	97	10.54	0.8	3.413	1.342	17	4	4	304
1408	422	A	106-#2 ACS	7.35Y	122.4	0.02	3.57	27.79	15	199	45	98	0.02	0.0	3.430	0.017	0	0	0	35
OCR-421	1408	A	061-50-4H	7.35Y	122.4	0.00	3.57	27.79	56	199	45	98	0.00	0.0	3.430	0.000	0	0	0	35
421	OCR-421	A	106-#2 ACS	7.34Y	122.4	0.08	3.65	27.79	15	199	45	98	0.12	0.1	3.524	0.094	32	7	3	35
1409	421	A	106-#2 ACS	7.33Y	122.2	0.15	3.80	23.26	13	167	37	98	0.18	0.1	3.729	0.205	43	10	4	32
1410	1409	A	106-#2 ACS	7.33Y	122.2	0.02	3.83	17.20	10	123	27	98	0.02	0.0	3.774	0.045	18	4	6	28
1411	1410	A	106-#2 ACS	7.32Y	122.0	0.16	3.98	14.62	8	105	23	98	0.12	0.1	4.109	0.335	40	9	7	22
1412	1411	A	106-#2 ACS	7.31Y	121.9	0.16	4.14	9.06	5	65	14	98	0.07	0.1	4.657	0.548	65	14	15	15
706	422	ABC	098-#3/0 A	7.27Y	121.1	1.30	4.85	50.14	17	1075	258	97	9.53	0.9	5.160	1.748	182	40	41	265
420	706	ABC	098-#3/0 A	7.24Y	120.7	0.49	5.34	41.59	14	883	207	97	3.00	0.3	5.959	0.799	110	25	15	224
OCR-419	420	A	007- 50-H	7.24Y	120.7	0.00	5.34	19.62	39	139	31	98	0.00	0.0	5.959	0.000	0	0	0	37
419	OCR-419	A	102-#1/0 A	7.22Y	120.3	0.32	5.66	19.62	9	139	31	98	0.30	0.2	6.659	0.700	138	31	37	37
418	420	ABC	098-#3/0 A	7.22Y	120.4	0.25	5.59	29.85	10	631	148	97	1.10	0.2	6.527	0.567	101	28	24	172
OCR-417	418	ABC	007- 50-H	7.22Y	120.4	0.00	5.59	25.01	50	529	119	98	0.00	0.0	6.527	0.000	0	0	0	148
417	OCR-417	ABC	098-#3/0 A	7.22Y	120.3	0.13	5.72	25.01	8	529	119	98	0.46	0.1	6.869	0.343	54	12	11	148
416	417	ABC	098-#3/0 A	7.21Y	120.1	0.14	5.86	7.29	2	154	34	98	0.15	0.1	8.183	1.314	154	34	43	43
415	417	ABC	098-#3/0 A	7.21Y	120.1	0.15	5.87	15.16	5	320	72	98	0.33	0.1	7.530	0.660	52	12	13	94
521	415	ABC	098-#3/0 A	7.20Y	119.9	0.21	6.08	9.92	3	209	47	98	0.31	0.1	8.979	1.449	209	46	56	56
FUSE-519	415	A	083-30N FU	7.21Y	120.1	0.00	5.87	8.34	14	59	13	98	0.00	0.0	7.530	0.000	0	0	0	25
519	FUSE-519	A	117-#6 A-C	7.16Y	119.3	0.87	6.74	8.34	6	5										

Balanced Voltage Drop Report
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Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Units Displayed In Volts -Base Voltage:120.0-					% PF	KW Loss	% Loss	mi From Src	Length (mi)	Element			
							Accum Drop	Thru Amps	% Cap	Thru KW	KVAR						Cons On	Cons Thru	Cons On	Cons Thru
411	OCR-411	A	117-#6 A-C	7.21Y	120.2	1.77	5.04	18.23	13	130	29	98	1.76	1.4	7.184	2.157	128	28	35	35
1348	704	B	106-#2 ACS	7.32Y	122.0	0.04	4.00	28.51	16	204	46	98	0.06	0.0	5.004	0.044	0	0	0	44
C OCR-1349	1348	B	006-35-H	7.32Y	122.0	0.00	4.00	28.51	81	204	46	98	0.00	0.0	5.004	0.000	0	0	0	44 C
1349	OCR-1349	B	106-#2 ACS	7.28Y	121.4	0.63	4.63	28.51	16	204	46	98	0.93	0.5	5.703	0.699	25	5	4	44
1350	1349	B	106-#2 ACS	7.26Y	120.9	0.42	5.05	25.02	14	178	40	98	0.55	0.3	6.234	0.530	59	13	15	40
1351	1350	B	106-#2 ACS	7.25Y	120.8	0.12	5.17	16.67	9	118	26	98	0.10	0.1	6.452	0.219	118	26	25	25

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	8568	0	0	0	0	0	202		0.00	8770	Lowest Voltage =	118.36	on Element 487
KVAR	2254	0	0	0	0	0	197			2450	Max Accm VoltD =	7.64	on Element 487
											Max Elem VoltD =	2.75	on Element 394

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ANDYVILLE

Detail

Balanced Voltage Drop Report Source: 8400

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		Units Displayed In Volts													mi				Element	
		-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	From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
8400	Feeder NO.	3	ABC SRC-8400-D	7.56Y	126.0	0.00	0.00	173.31	0	3712	1294	94	0.00	0.0	0.000	0.000	0	0	0	1070
Beginning with Node Element 8403																				
8403	8400	ABC	Node	7.56Y	126.0	0.00	0.00	50.08	0	1079	355	95	0.00	0.0	0.000	0.000	0	0	0	371
293	8403	ABC	098-#3/0 A	7.52Y	125.3	0.71	0.71	50.08	17	1079	355	95	4.85	0.4	0.931	0.931	56	16	22	371
OCR-292	293	C	006- 35-H	7.52Y	125.3	0.00	0.71	10.90	31	79	23	96	0.00	0.0	0.931	0.000	0	0	0	43
292	OCR-292	C	117-#6 A-C	7.48Y	124.7	0.60	1.31	10.90	8	79	23	96	0.23	0.3	3.331	2.400	78	23	43	43
291	293	ABC	098-#3/0 A	7.42Y	123.6	1.66	2.37	43.85	15	939	311	95	9.61	1.0	3.546	2.615	126	62	24	306
OCR-290	291	C	006- 35-H	7.42Y	123.6	0.00	2.37	7.72	22	55	16	96	0.00	0.0	3.546	0.000	0	0	0	28
290	OCR-290	C	106-#2 ACS	7.41Y	123.4	0.21	2.58	7.72	4	55	16	96	0.05	0.1	5.205	1.659	55	16	28	28
289	291	ABC	098-#3/0 A	7.40Y	123.3	0.33	2.70	35.05	12	748	222	96	1.62	0.2	4.179	0.633	38	11	12	254
OCR-288	289	B	007- 50-H	7.40Y	123.3	0.00	2.70	23.57	47	167	49	96	0.00	0.0	4.179	0.000	0	0	0	73
288	OCR-288	B	110-#4 ACS	7.37Y	122.8	0.46	3.16	23.57	17	167	49	96	0.34	0.2	5.869	1.690	100	29	44	73
287	288	B	106-#2 ACS	7.36Y	122.7	0.18	3.35	6.34	4	45	13	96	0.05	0.1	6.953	1.084	17	5	4	18
FUSE-286	287	B	083-30N FU	7.36Y	122.7	0.00	3.35	0.00	0	0	0	0	0.00	0.0	6.953	0.000	0	0	0	0
286	FUSE-286	B	118-#8 A-C	7.36Y	122.7	0.00	3.35	0.00	0	0	0	0	0.00	0.0	7.876	0.923	0	0	0	0
OCR-284	287	B	049-100-63	7.36Y	122.7	0.00	3.35	3.90	4	28	8	96	0.00	0.0	6.953	0.000	0	0	0	14
284	OCR-284	B	117-#6 A-C	7.34Y	122.4	0.27	3.62	3.90	3	28	8	96	0.04	0.2	9.300	2.347	19	6	12	14
FUSE-283	284	B	083-30N FU	7.34Y	122.4	0.00	3.62	1.18	2	8	2	97	0.00	0.0	9.300	0.000	0	0	0	2
283	FUSE-283	B	118-#8 A-C	7.34Y	122.3	0.03	3.65	1.18	1	8	2	97	0.00	0.0	10.150	0.850	8	2	2	2
FUSE-780	288	B	083-30N FU	7.37Y	122.8	0.00	3.16	3.11	5	22	6	96	0.00	0.0	5.869	0.000	0	0	0	11
780	FUSE-780	B	110-#4 ACS	7.37Y	122.8	0.07	3.24	3.11	2	22	6	96	0.01	0.0	8.762	2.893	22	6	11	11
OCR-282	289	ABC	007- 50-H	7.40Y	123.3	0.00	2.70	25.40	51	541	160	96	0.00	0.0	4.179	0.000	0	0	0	169
282	OCR-282	ABC	098-#3/0 A	7.35Y	122.5	0.82	3.53	25.40	8	541	160	96	2.67	0.5	6.649	2.470	156	45	59	169
280	282	ABC	098-#3/0 A	7.34Y	122.4	0.07	3.59	18.03	6	382	111	96	0.17	0.0	6.888	0.238	6	2	2	110
FUSE-278	280	ABC	083-30N FU	7.34Y	122.4	0.00	3.59	13.99	23	296	86	96	0.00	0.0	6.888	0.000	0	0	0	76
278	FUSE-278	ABC	098-#3/0 A	7.33Y	122.1	0.29	3.88	13.99	5	296	86	96	0.53	0.2	8.397	1.510	62	18	12	76
OCR-277	278	B	006- 35-H	7.33Y	122.1	0.00	3.88	14.91	43	105	31	96	0.00	0.0	8.397	0.000	0	0	0	22
277	OCR-277	B	106-#2 ACS	7.30Y	121.6	0.53	4.41	14.91	8	105	31	96	0.36	0.3	9.651	1.254	29	8	6	22
4961	277	B	106-#2 ACS	7.29Y	121.5	0.11	4.52	7.06	4	49	14	96	0.03	0.1	10.626	0.975	49	14	9	9
FUSE-740	277	B	083-30N FU	7.30Y	121.6	0.00	4.41	3.73	6	26	8	96	0.00	0.0	9.651	0.000	0	0	0	7
740	FUSE-740	B	118-#8 A-C	7.29Y	121.4	0.16	4.57	3.73	4	26	8	96	0.02	0.1	10.913	1.262	26	8	7	7
276	278	ABC	098-#3/0 A	7.33Y	122.1	0.01	3.90	2.01	1	43	12	96	0.00	0.0	9.296	0.899	43	12	11	11
1279	278	C	106-#2 ACS	7.32Y	122.1	0.04	3.93	12.26	7	86	25	96	0.03	0.0	8.506	0.109	0	0	0	31
OCR-279	1279	C	006- 35-H	7.32Y	122.1	0.00	3.93	12.26	35	86	25	96	0.00	0.0	8.506	0.000	0	0	0	31
279	OCR-279	C	106-#2 ACS	7.29Y	121.6	0.50	4.43	12.26	7	86	25	96	0.20	0.2	10.995	2.489	86	25	31	31
OCR-4960	280	B	006- 35-H	7.34Y	122.4	0.00	3.59	11.35	32	80	23	96	0.00	0.0	6.888	0.000	0	0	0	32
4960	OCR-4960	B	106-#2 ACS	7.33Y	122.1	0.27	3.86	11.35	6	80	23	96	0.10	0.1	8.354	1.466	80	23	32	32
Feeder NO. 2 Beginning with Node Element 8402																				
8402	8400	ABC	Node	7.56Y	126.0	0.00	0.00	71.68	0	1544	508	95	0.00	0.0	0.000	0.000	0	0	0	443
312	8402	ABC	098-#3/0 A	7.42Y	123.6	2.35	2.35	71.68	24	1544	508	95	22.55	1.5	2.212	2.212	172	31	66	443
4043	312	ABC	098-#3/0 A	7.37Y	122.9	0.76	3.11	59.17	20	1244	432	94	6.08	0.5	3.040	0.828	54	10	9	335
311	4043	ABC	098-#3/0 A	7.32Y	122.0	0.93	4.04	56.72	19	1184	415	94	7.06	0.6	4.094	1.055	64	12	15	326
4044	311	C	118-#8 A-C	7.31Y	121.8	0.15	4.19	10.36	10	75	14	98	0.09	0.1	4.317	0.223	4	1	1	19
OCR-4045	4044	C	049-100-63	7.31Y	121.8	0.00	4.19	9.87	10	71	13	98	0.00	0.0	4.317	0.000	0	0	0	18
4045	OCR-4045	C	106-#2 ACS	7.30Y	121.6	0.19	4.37	9.87	5	71	13	98	0.06	0.1	5.524	1.207	71	13	18	18
4042	311	ABC	098-#3/0 A	7.31Y	121.8	0.16	4.20	50.40	17	1039	382	94	1.08	0.1	4.291	0.197	13	2	3	292
OCR-310	4042	ABC	010- 50-L	7.31Y	121.8	0.00	4.20	49.81	100	1024	378	94	0.00	0.0	4.291	0.000	0	0	0	289
310	OCR-310	ABC	098-#3/0 A	7.25Y	120.8	1.05	5.24	49.81	17	1024	378	94	6.10	0.6	6.021	1.730	406	254	67	289
4072	310	ABC	098-#3/0 A	7.24Y	120.6	0.12	5.36	25.16	8	537	103	98	0.44	0.1	6.371	0.350	50	9	15	188
4066	4072	ABC	098-#3/0 A	7.24Y	120.6	0.00	5.37	1.45	0	31	6	98	0.00	0.0	6.534	0.162	31	6	4	4
309	4072	ABC	098-#3/0 A	7.23Y	120.5	0.10	5.47	21.37	7	456	88	98	0.30	0.1	6.747	0.375	112	20	32	169
OCR-308	309	C	005- 25-H	7.23Y	120.5	0.00	5.47	9.28	37	66	12	98	0.00	0.0	6.747	0.000	0	0	0	32
308	OCR-308	C	106-#2 ACS	7.22Y	120.3	0.27	5.73	9.28	5	66	12	98	0.09	0.1	8.613	1.866	66	12	32	32
307	309	ABC	098-#3/0 A	7.22Y	120.3	0.20	5.67	10.21	3	217	44	98	0.24	0.1	8.865	2.119	149	31	57	77
OCR-306	307	A	005- 25-H	7.22Y	120.3	0.00	5.67	9.58	38	68	13	98	0.00	0.0	8.865	0.000	0	0	0	20
306	OCR-306	A	106-#2 ACS	7.21Y	120.2	0.18	5.85	9.58	5	68	13	98	0.08	0.1	9.560	0.695	21	4	8	20
2306	306	A	106-#2 ACS	7.21Y	120.1	0.01	5.86	1.78	1	13	2	99	0.00	0.0	10.065	0.505	13	2	2	2
1306	306	A	106-#2 ACS	7.20Y	120.1	0.07	5.92	4.88	3	35	6	99	0.01	0.0	10.514	0.955	35	6	10	10
FUSE-739	309	A	083-30N FU	7.23Y	120.5	0.00	5.47	8.54	14	61	11	98	0.00	0.0	6.747	0.000	0	0	0	28
739	FUSE-739	A	118-#8 A-C	7.20Y	120.0	0.52	5.99	8.54	9	61										

Balanced Voltage Drop Report
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Detail

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Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Units Displayed In Volts					%	KW	%	mi From	Length (mi)	Element			
							Accum Drop	Thru Amps	% Cap	Thru KW	KVAR						PF	Loss	Loss	Src
303	OCR-303	B	117-#6 A-C	7.35Y	122.5	0.55	3.45	9.75	7	72	3	100	0.27	0.4	5.423	1.646	26	1	14	49
302	303	B	117-#6 A-C	7.34Y	122.3	0.21	3.66	3.26	2	24	1	100	0.03	0.1	8.470	3.047	24	1	16	16
301	303	B	117-#6 A-C	7.34Y	122.3	0.22	3.67	2.91	2	21	1	100	0.02	0.1	9.017	3.595	21	1	19	19
OCR-736	305	A	006- 35-H	7.46Y	124.3	0.00	1.70	4.89	14	36	1	100	0.00	0.0	2.094	0.000	0	0	0	25
736	OCR-736	A	117-#6 A-C	7.44Y	124.1	0.24	1.94	4.89	3	36	1	100	0.05	0.1	4.424	2.330	36	1	25	25

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	3620	0	0	0	0	0	92		0.00	3712	Lowest Voltage = 120.01	on Element 739
KVAR	1192	0	0	0	0	0	102			1294	Max Accm VoltD = 5.99	on Element 739
											Max Elem VoltD = 2.35	on Element 312

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UNION STATE WINTER BASE

Detail

Balanced Voltage Drop Report
Source: 8300

***NO FEEDER DATA* (RECOVER)**

Database: C:\MILSOFT\DATA\ORIGINAL FROM POE\WINTER MODEL 2005.WM

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		Units Displayed In Volts													mi		Element			
		-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	From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
8300		ABC	SRC-8300-D	7.56Y	126.0	0.00	0.00	159.17	0	3537	720	98	0.00	0.0	0.000	0.000	0	0	0	934
Feeder NO. 3		Beginning with Node Element 8303																		
8303	8300	ABC	Node	7.56Y	126.0	0.00	0.00	33.46	0	746	140	98	0.00	0.0	0.000	0.000	0	0	0	210
367	8303	ABC	098-#3/0 A	7.49Y	124.8	1.18	1.18	33.46	11	746	140	98	5.72	0.8	2.634	2.634	97	17	17	210
368	367	ABC	098-#3/0 A	7.45Y	124.2	0.61	1.79	29.10	10	643	117	98	2.64	0.4	4.152	1.517	42	7	6	193
371	368	ABC	098-#3/0 A	7.42Y	123.7	0.51	2.30	23.13	8	509	91	98	1.66	0.3	5.921	1.770	123	21	25	146
4019	371	A	118-#8 A-C	7.39Y	123.1	0.58	2.88	24.06	24	176	31	98	0.72	0.4	6.339	0.418	45	8	6	59
OCR-374	4019	A	005-25-H	7.39Y	123.1	0.00	2.88	17.91	72	130	23	98	0.00	0.0	6.339	0.000	0	0	0	53
374	OCR-374	A	106-#2 ACS	7.33Y	122.1	1.02	3.90	17.91	10	130	23	98	0.65	0.5	10.018	3.678	130	23	53	53
4018	371	B	117-#6 A-C	7.41Y	123.5	0.18	2.48	12.90	9	94	16	99	0.12	0.1	6.298	0.377	30	5	3	27
OCR-372	4018	B	005-25-H	7.41Y	123.5	0.00	2.48	8.81	35	64	11	99	0.00	0.0	6.298	0.000	0	0	0	24
372	OCR-372	B	117-#6 A-C	7.39Y	123.2	0.31	2.80	8.81	6	64	11	99	0.10	0.2	7.905	1.607	64	11	24	24
375	371	B	117-#6 A-C	7.38Y	123.0	0.67	2.98	15.61	11	114	20	98	0.39	0.3	7.868	1.947	114	20	35	35
OCR-370	368	C	060-35-4H	7.45Y	124.2	0.00	1.79	12.29	35	90	16	98	0.00	0.0	4.152	0.000	0	0	0	41
370	OCR-370	C	110-#4 ACS	7.44Y	123.9	0.26	2.05	12.29	9	90	16	98	0.10	0.1	7.114	2.963	90	16	41	41
Feeder NO. 2		Beginning with Node Element 8302																		
8302	8300	ABC	Node	7.56Y	126.0	0.00	0.00	56.24	0	1249	258	98	0.00	0.0	0.000	0.000	0	0	0	304
275	8302	ABC	098-#3/0 A	7.54Y	125.6	0.38	0.38	56.24	19	1249	258	98	3.16	0.3	0.477	0.477	52	9	13	304
274	275	A	118-#8 A-C	7.53Y	125.6	0.06	0.44	1.81	2	13	2	99	0.00	0.0	1.434	0.957	13	2	5	5
273	275	ABC	098-#3/0 A	7.48Y	124.6	0.97	1.35	53.29	18	1180	243	98	7.42	0.6	1.814	1.337	145	25	29	286
OCR-513	273	A	006-35-H	7.48Y	124.6	0.00	1.35	14.49	41	107	19	98	0.00	0.0	1.814	0.000	0	0	0	36
513	OCR-513	A	117-#6 A-C	7.39Y	123.2	1.44	2.80	14.49	10	107	19	98	0.98	0.9	4.716	2.902	48	8	19	36
285	513	A	118-#8 A-C	7.36Y	122.6	0.62	3.41	7.87	8	57	10	98	0.18	0.3	7.105	2.388	57	10	17	17
493	273	ABC	098-#3/0 A	7.39Y	123.2	1.41	2.76	41.94	14	921	190	98	8.51	0.9	4.254	2.439	97	17	19	221
4068	493	ABC	098-#3/0 A	7.39Y	123.2	0.09	2.85	37.52	13	816	164	98	0.50	0.1	4.419	0.166	7	1	2	202
P 4067	4068	ABC	098-#3/0 A	7.39Y	123.2	0.00	2.85	0.00	0	0	0	0	0.00	0.0	4.482	0.063	0	0	0	0
OCR-272	4068	ABC	007-50-H	7.39Y	123.2	0.00	2.85	37.20	74	809	162	98	0.00	0.0	4.419	0.000	0	0	0	200
272	OCR-272	ABC	098-#3/0 A	7.36Y	122.7	0.48	3.33	37.20	12	809	162	98	2.64	0.3	5.320	0.901	24	4	5	200
FUSE-271	272	ABC	083-30N FU	7.36Y	122.7	0.00	3.33	17.51	29	381	68	98	0.00	0.0	5.320	0.000	0	0	0	97
271	FUSE-271	ABC	098-#3/0 A	7.34Y	122.3	0.41	3.74	17.51	6	381	68	98	1.02	0.3	7.191	1.872	87	15	20	97
270	271	ABC	098-#3/0 A	7.33Y	122.2	0.11	3.85	9.55	3	207	36	99	0.13	0.1	8.208	1.016	92	16	16	50
269	270	C	117-#6 A-C	7.33Y	122.1	0.03	3.87	0.61	0	4	1	97	0.00	0.0	10.201	1.993	4	1	4	4
4928	270	A	106-#2 ACS	7.33Y	122.1	0.02	3.87	15.29	8	110	19	99	0.02	0.0	8.256	0.049	0	0	0	30
OCR-268	4928	A	005-25-H	7.33Y	122.1	0.00	3.87	15.29	61	110	19	99	0.00	0.0	8.256	0.000	0	0	0	30
268	OCR-268	A	106-#2 ACS	7.28Y	121.4	0.77	4.64	15.29	8	110	19	99	0.42	0.4	11.500	3.244	110	19	30	30
782	271	A	118-#8 A-C	7.29Y	121.5	0.81	4.55	11.86	12	86	15	99	0.36	0.4	9.272	2.081	85	15	27	27
OCR-896	272	ABC	011-70-L	7.36Y	122.7	0.00	3.33	1.19	2	26	5	98	0.00	0.0	5.320	0.000	0	0	0	4
896	OCR-896	ABC	098-#3/0 A	7.36Y	122.7	0.00	3.33	1.19	0	26	5	98	0.00	0.0	5.850	0.531	26	5	4	4
783	272	ABC	098-#3/0 A	7.35Y	122.4	0.24	3.57	17.39	6	375	83	98	0.60	0.2	6.329	1.009	46	8	8	94
267	783	ABC	098-#3/0 A	7.33Y	122.1	0.32	3.88	11.10	4	238	58	97	0.40	0.2	9.207	2.878	156	44	43	60
384	267	ABC	116-4-ACWC	7.32Y	122.1	0.04	3.92	2.14	1	46	8	99	0.01	0.0	10.518	1.311	46	8	9	9
383	267	ABC	116-4-ACWC	7.33Y	122.1	0.01	3.89	1.62	1	35	6	99	0.00	0.0	9.638	0.430	35	6	9	8
FUSE-784	783	C	083-30N FU	7.35Y	122.4	0.00	3.57	12.56	21	91	16	98	0.00	0.0	6.329	0.000	0	0	0	26
784	FUSE-784	C	117-#6 A-C	7.33Y	122.1	0.32	3.89	12.56	9	91	16	98	0.15	0.2	7.474	1.145	91	16	26	26
Feeder NO. 1		Beginning with Node Element 8301																		
8301	8300	ABC	Node	7.56Y	126.0	0.00	0.00	69.47	0	1542	322	98	0.00	0.0	0.000	0.000	0	0	0	420
266	8301	ABC	098-#3/0 A	7.50Y	125.0	0.97	0.97	69.47	23	1542	322	98	9.85	0.6	0.993	0.993	98	17	25	420
C OCR-259	266	ABC	006-35-H	7.50Y	125.0	0.00	0.97	65.05	186	1434	294	98	0.00	0.0	0.993	0.000	0	0	0	395
259	OCR-259	ABC	098-#3/0 A	7.34Y	122.4	2.67	3.64	65.05	12	1434	294	98	25.32	1.8	3.989	2.996	133	36	35	395
1259	259	ABC	098-#3/0 A	7.34Y	122.3	0.06	3.70	34.55	12	749	136	98	0.31	0.0	4.108	0.119	0	0	0	234
OCR-265	1259	B	010-50-L	7.34Y	122.3	0.00	3.70	32.64	65	236	43	98	0.00	0.0	4.108	0.000	0	0	0	75
265	OCR-265	B	106-#2 ACS	7.24Y	120.7	1.63	5.34	32.64	18	236	43	98	2.47	1.0	6.106	1.998	89	16	29	75
FUSE-264	265	B	083-30N FU	7.24Y	120.7	0.00	5.34	7.49	12	53	9	99	0.00	0.0	6.106	0.000	0	0	0	19
264	FUSE-264	B	106-#2 ACS	7.23Y	120.5	0.16	5.50	7.49	4	53	9	99	0.04	0.1	7.520	1.414	53	9	19	19
OCR-263	265	B	049-100-63	7.24Y	120.7	0.00	5.34	12.66	13	90	16	98	0.00	0.0	6.106	0.000	0	0	0	27
263	OCR-263	B	106-#2 ACS	7.20Y	120.0	0.67	6.00	12.66	7	90	16	98	0.37	0.4	8.442	2.336	49	8	14	27
OCR-261	263	B	051-140-63	7.20Y	120.0	0.00	6.00	5.79	4	41	7	99	0.00	0.0	8.442	0.000	0	0	0	13
261	OCR-261	B	118-#8 A-C	7.18Y	119.7	0.25	6.25	5.79	6	41	7	99	0.05	0.1	9.760	1.317	41	7	13	13
OCR-260	1259	ABC	007-50-H	7.34Y	122.3	0.00	3.70	23.67	47	513	93	98	0.00	0.0	4.108	0.000	0	0	0	159
260	OCR-260	ABC	098-#3/0 A	7.31Y	121.8	0.46	4.16	23.67	8	513	93	98	1.60	0.3	5					

Balanced Voltage Drop Report
Source: 8300

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total	
KW	3455	0	0	0	0	0	83	0.00	3537	Lowest Voltage = 119.75 on Element 261
KVAR	631	0	0	0	0	0	90		720	Max Accm VoltD = 6.25 on Element 261
										Max Elem VoltD = 2.67 on Element 259

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Doe Valley Winter Case

Detail

Balanced Voltage Drop Report
Source: 8130

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Units Displayed In Volts -Base Voltage:120.0-																				
Element Name	Parent Name	Type/ Cnf	Pri Conductor	Base KV	Element Volt	Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	Element KW	Cons KVAR	Cons On	Cons Thru
8130		ABC	SRC-8130-D	7.56Y	126.0	0.00	0.00	361.66	0	8037	1637	98	0.00	0.0	0.000	0.000	0	0	0	1393
----- Feeder NO. 3 Beginning with Node Element 8133																				
8133	8130	ABC	Node	7.56Y	126.0	0.00	0.00	70.42	0	1565	319	98	0.00	0.0	0.000	0.000	0	0	0	383
621	8133	ABC	098-#3/0 A	7.45Y	124.1	1.89	1.89	70.42	23	1565	319	98	20.02	1.3	1.861	1.861	0	0	0	383
P 959	621	ABC	098-#3/0 A	7.45Y	124.1	0.00	1.89	0.00	0	0	0	0	0.00	0.0	1.865	0.004	0	0	0	0 P
779	621	ABC	098-#3/0 A	7.41Y	123.6	0.54	2.43	70.42	23	1545	296	98	5.47	0.4	2.427	0.566	195	31	36	383
589	779	ABC	098-#3/0 A	7.39Y	123.2	0.36	2.79	28.07	9	617	93	99	1.06	0.2	4.287	1.860	616	92	149	149
789	779	ABC	098-#3/0 A	7.37Y	122.8	0.75	3.18	33.54	11	727	167	97	3.28	0.5	4.239	1.813	249	37	55	198
361	789	ABC	098-#3/0 A	7.36Y	122.6	0.18	3.37	22.22	7	475	126	97	0.39	0.1	5.320	1.080	474	126	143	143
----- Feeder NO. 4 Beginning with Node Element 8134																				
8134	8130	ABC	Node	7.56Y	126.0	0.00	0.00	63.93	0	1421	289	98	0.00	0.0	0.000	0.000	0	0	0	219
475	8134	ABC	098-#3/0 A	7.48Y	124.6	1.40	1.40	63.93	21	1421	289	98	11.78	0.8	1.860	1.860	523	101	79	219
593	475	ABC	110-#4 ACS	7.47Y	124.5	0.12	1.52	40.25	29	885	175	98	0.43	0.0	2.520	0.660	885	174	140	140
----- Feeder NO. 2 Beginning with Node Element 8132																				
8132	8130	ABC	Node	7.56Y	126.0	0.00	0.00	113.79	0	2529	515	98	0.00	0.0	0.000	0.000	0	0	0	431
476	8132	ABC	098-#3/0 A	7.42Y	123.6	2.36	2.36	113.79	38	2529	515	98	38.03	1.5	1.575	1.575	437	82	73	431
OCR-778	476	ABC	011- 70-L	7.42Y	123.6	0.00	2.36	43.25	62	945	181	98	0.00	0.0	1.575	0.000	0	0	0	172
778	OCR-778	ABC	098-#3/0 A	7.38Y	123.0	0.61	2.97	43.25	14	945	181	98	3.50	0.4	2.752	1.178	324	61	62	172
OCR-759	778	A	049-100-63	7.38Y	123.0	0.00	2.97	41.55	42	301	57	98	0.00	0.0	2.752	0.000	0	0	0	54
759	OCR-759	A	098-#3/0 A	7.36Y	122.7	0.28	3.25	41.55	14	301	57	98	0.38	0.1	3.475	0.723	301	56	54	54
OCR-4079	778	B	049-100-63	7.38Y	123.0	0.00	2.97	4.07	4	30	6	98	0.00	0.0	2.752	0.000	0	0	0	4
4079	OCR-4079	B	118-#8 A-C	7.38Y	123.0	0.04	3.01	4.07	4	30	6	98	0.01	0.0	3.076	0.324	30	6	4	4
OCR-4078	778	B	049-100-63	7.38Y	123.0	0.00	2.97	16.51	17	120	22	98	0.00	0.0	2.752	0.000	0	0	0	21
4078	OCR-4078	B	110-#4 ACS	7.38Y	123.0	0.05	3.02	16.51	12	120	22	98	0.03	0.0	3.197	0.444	120	22	21	21
OCR-4077	778	C	049-100-63	7.38Y	123.0	0.00	2.97	23.01	23	167	31	98	0.00	0.0	2.752	0.000	0	0	0	31
4077	OCR-4077	C	098-#3/0 A	7.38Y	123.0	0.06	3.03	23.01	8	167	31	98	0.06	0.0	2.926	0.173	69	13	9	31
FUSE-776	4077	C	081-20N FU	7.38Y	123.0	0.00	3.03	13.45	34	98	18	98	0.00	0.0	2.926	0.000	0	0	0	22
776	FUSE-776	C	106-#2 ACS	7.37Y	122.8	0.20	3.22	13.45	7	98	18	98	0.09	0.1	3.862	0.937	97	18	22	22
OCR-775	476	B	049-100-63	7.42Y	123.6	0.00	2.36	14.27	14	104	19	98	0.00	0.0	1.575	0.000	0	0	0	23
775	OCR-775	B	118-#8 A-C	7.40Y	123.4	0.24	2.60	14.27	14	104	19	98	0.13	0.1	2.083	0.509	104	19	23	23
C FUSE-748	476	A	082-25M FU	7.42Y	123.6	0.00	2.36	48.93	98	357	67	98	0.00	0.0	1.575	0.000	0	0	0	64 C
748	FUSE-748	A	117-#6 A-C	7.37Y	122.8	0.84	3.20	48.93	35	357	67	98	1.72	0.5	2.174	0.600	254	47	49	64
756	748	A	118-#8 A-C	7.36Y	122.6	0.19	3.39	13.98	14	101	19	98	0.10	0.1	2.589	0.415	101	19	15	15
477	476	ABC	098-#3/0 A	7.39Y	123.2	0.48	2.84	29.64	10	648	123	98	1.66	0.3	3.268	1.694	136	82	70	99
P 762	477	ABC	098-#3/0 A	7.39Y	123.2	0.00	2.84	0.00	0	0	0	0	0.00	0.0	3.317	0.049	0	0	0	0 P
OCR-757	477	C	047-70-63	7.39Y	123.2	0.00	2.84	28.98	41	210	40	98	0.00	0.0	3.268	0.000	0	0	0	29
757	OCR-757	C	106-#2 ACS	7.36Y	122.7	0.42	3.26	28.98	16	210	40	98	0.43	0.2	4.205	0.937	210	39	29	29
----- Feeder NO. 1 Beginning with Node Element 8131																				
8131	8130	ABC	Node	7.56Y	126.0	0.00	0.00	113.52	0	2523	514	98	0.00	0.0	0.000	0.000	0	0	0	360
474	8131	ABC	098-#3/0 A	7.49Y	124.8	1.25	1.25	113.52	38	2523	514	98	20.29	0.8	0.813	0.813	335	62	42	360
C OCR-356	474	ABC	007- 50-H	7.49Y	124.8	0.00	1.25	91.67	183	2019	402	98	0.00	0.0	0.813	0.000	0	0	0	292 C
356	OCR-356	ABC	098-#3/0 A	7.38Y	123.0	1.80	3.05	91.67	31	2019	402	98	24.52	1.2	2.198	1.385	70	13	9	292
OCR-4140	356	ABC	011- 70-L	7.38Y	123.0	0.00	3.05	45.24	65	984	186	98	0.00	0.0	2.198	0.000	0	0	0	121
4140	OCR-4140	ABC	098-#3/0 A	7.36Y	122.7	0.27	3.32	45.24	15	984	186	98	1.83	0.2	2.635	0.437	65	12	5	121
4142	4140	ABC	098-#3/0 A	7.35Y	122.5	0.15	3.47	36.68	12	796	150	98	0.75	0.1	2.954	0.319	196	36	21	102
OCR-4145	4142	A	049-100-63	7.35Y	122.5	0.00	3.47	41.27	41	298	56	98	0.00	0.0	2.954	0.000	0	0	0	38
4145	OCR-4145	A	110-#4 ACS	7.35Y	122.4	0.11	3.58	41.27	29	298	56	98	0.20	0.1	3.147	0.193	17	3	2	38
4150	4145	A	110-#4 ACS	7.33Y	122.2	0.17	3.75	38.97	28	281	52	98	0.22	0.1	3.631	0.483	213	39	30	36
4152	4150	A	110-#4 ACS	7.33Y	122.2	0.02	3.77	9.48	7	68	13	98	0.01	0.0	3.905	0.274	68	13	6	6
OCR-4143	4142	C	049-100-63	7.35Y	122.5	0.00	3.47	41.61	42	301	57	98	0.00	0.0	2.954	0.000	0	0	0	43
4143	OCR-4143	C	106-#2 ACS	7.34Y	122.4	0.18	3.65	41.61	23	301	57	98	0.40	0.1	3.094	0.140	0	0	0	43
4146	4143	C	110-#4 ACS	7.32Y	122.0	0.31	3.95	41.61	30	300	57	98	0.51	0.2	3.675	0.581	82	15	18	43
OCR-4147	4146	C	049-100-63	7.32Y	122.0	0.00	3.95	30.20	30	217	40	98	0.00	0.0	3.675	0.000	0	0	0	25
4147	OCR-4147	C	110-#4 ACS	7.32Y	121.9	0.11	4.06	30.20	22	217	40	98	0.13	0.1	3.961	0.286	58	11	5	25
4148	4147	C	110-#4 ACS	7.31Y	121.9	0.08	4.15	22.18	16	160	30	98	0.06	0.0	4.333	0.372	98	18	13	20
4149	4148	C	110-#4 ACS	7.31Y	121.8	0.02	4.16	8.60	6	62	11	98	0.00	0.0	4.619	0.285	62	11	7	7
4141	4140	ABC	098-#3/0 A	7.36Y	122.7	0.01	3.33	5.55	2	120	22	98	0.01	0.0	3.011	0.376	120	22	14	14
4075	356	ABC	098-#3/0 A	7.37Y	122.9	0.10	3.14	37.35	12	813	151	98	0.56	0.1	2.386	0.188	22	4	3	140
OCR-754	4075	ABC	012-100-L	7.37Y	122.9	0.00	3.14	36.33	36	790	147	98	0.00	0.0	2.386	0.000	0	0	0	137
754	OCR-754	ABC	098-#3/0 A	7.36Y	122.6	0.25	3.39	36.33	12	790	147	98	0.97	0.1	3.253	0.867	702	130	123	137
OCR-4076	754	B	049-100-63	7.36Y	122.6	0.00	3.39	11.98	12	87	16	98</								

GARRETT WINTER CASE

Detail

Balanced Voltage Drop Report
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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
8120		ABC	SRC-8120-D	7.56Y	126.0	0.00	0.00	495.08	0	11004	2234	98	0.00	0.0	0.000	0.000	0	0	0	2007
Feeder NO. 4 Beginning with Node Element 8124																				
8124	8120	ABC	Node	7.56Y	126.0	0.00	0.00	58.04	0	1290	263	98	0.00	0.0	0.000	0.000	0	0	0	199
471	8124	ABC	098-#3/0 A	7.49Y	124.8	1.22	1.22	58.04	19	1290	263	98	10.06	0.8	1.592	1.592	206	63	39	199
470	471	ABC	098-#3/0 A	7.44Y	124.0	0.74	1.96	48.54	16	1074	188	99	5.16	0.5	2.777	1.185	198	33	23	160
1905	470	ABC	098-#3/0 A	7.43Y	123.9	0.12	2.08	18.75	6	413	70	99	0.30	0.1	3.391	0.614	192	32	28	60
OCR-1906	1905	C	049-100-63	7.43Y	123.9	0.00	2.08	30.05	30	220	37	99	0.00	0.0	3.391	0.000	0	0	0	32
1906	OCR-1906	C	117-#6 A-C	7.42Y	123.7	0.26	2.35	30.05	21	220	37	99	0.29	0.1	3.784	0.393	220	37	32	32
OCR-898	470	B	011-70-L	7.44Y	124.0	0.00	1.96	54.85	78	402	69	99	0.00	0.0	2.777	0.000	0	0	0	68 C
898	OCR-898	B	098-#3/0 A	7.41Y	123.5	0.56	2.52	54.85	18	402	69	99	1.01	0.3	3.877	1.099	401	68	68	68
FUSE-867	470	C	082-25N FU	7.44Y	124.0	0.00	1.96	7.61	15	56	9	99	0.00	0.0	2.777	0.000	0	0	0	9
867	FUSE-867	C	118-#8 A-C	7.43Y	123.9	0.15	2.11	7.61	8	56	9	99	0.04	0.1	3.368	0.590	56	9	9	9
Feeder NO. 5 Beginning with Node Element 8125																				
P 8125	8120	ABC	Node	7.56Y	126.0	0.00	0.00	0.00	0	0	0	0	0.00	0.0	0.000	0.000	0	0	0	2 P
P 574	8125	ABC	074-795 AC	7.56Y	126.0	0.00	0.00	0.00	0	0	0	0	0.00	0.0	1.595	1.595	0	0	2	2 P
Feeder NO. 6 Beginning with Node Element 8126																				
8126	8120	ABC	Node	7.56Y	126.0	0.00	0.00	129.02	0	2867	583	98	0.00	0.0	0.000	0.000	0	0	0	554
447	8126	ABC	098-#3/0 A	7.41Y	123.6	2.44	2.44	129.02	43	2867	583	98	45.57	1.6	1.381	1.381	306	45	55	554
446	447	ABC	106-#2 ACS	7.39Y	123.2	0.32	2.76	23.02	13	500	108	98	0.85	0.2	2.299	0.917	420	96	65	80
FUSE-856	446	B	085-50N FU	7.39Y	123.2	0.00	2.76	10.84	11	79	12	99	0.00	0.0	2.299	0.000	0	0	0	15
856	FUSE-856	B	117-#6 A-C	7.39Y	123.2	0.06	2.82	10.84	8	79	12	99	0.03	0.0	2.559	0.261	79	12	15	15
OCR-445	447	B	061-50-4H	7.41Y	123.6	0.00	2.44	28.20	56	207	32	99	0.00	0.0	1.381	0.000	0	0	0	48
445	OCR-445	B	117-#6 A-C	7.30Y	121.7	1.87	4.31	28.20	20	207	32	99	2.36	1.1	3.515	2.134	120	18	33	48
OCR-857	445	B	051-140-63	7.30Y	121.7	0.00	4.31	11.64	8	84	13	99	0.00	0.0	3.515	0.000	0	0	0	15
857	OCR-857	B	118-#8 A-C	7.28Y	121.3	0.43	4.74	11.64	12	84	13	99	0.26	0.3	4.157	0.642	20	3	3	15
858	857	B	106-#2 ACS	7.27Y	121.2	0.11	4.85	8.86	5	64	9	99	0.03	0.1	4.959	0.802	64	9	12	12
OCR-441	447	A	007-50-H	7.41Y	123.6	0.00	2.44	29.87	60	219	33	99	0.00	0.0	1.381	0.000	0	0	0	64
441	OCR-441	A	117-#6 A-C	7.34Y	122.3	1.22	3.66	29.87	21	219	33	99	1.36	0.6	3.243	1.862	218	32	64	64
572	447	ABC	113-2F 7/1	7.31Y	121.9	1.67	4.11	72.87	43	1590	314	98	18.09	1.1	2.798	1.417	166	25	28	307
436	572	ABC	113-2F 7/1	7.26Y	121.1	0.83	4.94	44.30	26	951	203	98	5.46	0.6	3.916	1.118	61	9	9	186
FUSE-893	436	C	082-25N FU	7.26Y	121.1	0.00	4.94	23.60	47	170	25	99	0.00	0.0	3.916	0.000	0	0	0	33
893	FUSE-893	C	110-#4 ACS	7.26Y	120.9	0.13	5.06	23.60	17	170	25	99	0.09	0.1	4.696	0.780	169	25	33	33
OCR-578	436	A	007-50-H	7.26Y	121.1	0.00	4.94	23.12	46	166	25	99	0.00	0.0	3.916	0.000	0	0	0	43
578	OCR-578	A	118-#8 A-C	7.16Y	119.3	1.79	6.73	23.12	23	166	25	99	1.58	1.0	6.293	2.377	164	24	43	43
575	436	ABC	113-2F 7/1	7.23Y	120.5	0.52	5.46	25.95	15	548	138	97	1.89	0.3	5.175	1.259	108	16	23	101
433	575	ABC	113-2F 7/1	7.23Y	120.5	0.05	5.51	4.71	3	101	15	99	0.02	0.0	6.377	1.201	101	15	19	19
958	575	ABC	098-#3/0 A	7.23Y	120.5	0.08	5.54	9.33	3	185	82	91	0.08	0.0	5.907	0.731	93	69	6	27
OCR-435	958	B	007-50-H	7.23Y	120.5	0.00	5.54	12.83	26	92	14	99	0.00	0.0	5.907	0.000	0	0	0	21
435	OCR-435	B	106-#2 ACS	7.21Y	120.1	0.31	5.85	12.83	7	92	14	99	0.21	0.2	6.766	0.959	12	2	5	21
895	435	B	106-#2 ACS	7.20Y	119.9	0.21	6.07	11.19	6	80	12	99	0.09	0.1	8.014	1.248	80	12	16	16
FUSE-894	575	A	082-25N FU	7.23Y	120.5	0.00	5.46	21.28	43	152	23	99	0.00	0.0	5.175	0.000	0	0	0	32
894	FUSE-894	A	110-#4 ACS	7.23Y	120.4	0.10	5.56	21.28	15	152	23	99	0.06	0.0	5.823	0.648	152	23	32	32
892	572	A	110-#4 ACS	7.30Y	121.7	0.20	4.30	23.23	17	168	25	99	0.14	0.1	4.010	1.211	168	25	35	35
C OCR-890	572	C	007-50-H	7.31Y	121.9	0.00	4.11	39.69	79	287	44	99	0.00	0.0	2.798	0.000	0	0	0	58 C
890	OCR-890	C	106-#2 ACS	7.26Y	121.0	0.93	5.04	39.69	22	287	44	99	1.68	0.6	3.801	1.002	133	20	31	58
515	890	C	106-#2 ACS	7.23Y	120.5	0.42	5.46	21.23	12	152	23	99	0.35	0.2	4.873	1.072	121	18	23	27
FUSE-444	515	C	082-25N FU	7.23Y	120.5	0.00	5.46	4.39	9	31	5	99	0.00	0.0	4.873	0.000	0	0	0	4
444	FUSE-444	C	118-#8 A-C	7.23Y	120.4	0.12	5.58	4.39	4	31	5	99	0.02	0.1	5.726	0.853	31	5	4	4
P 891	515	C	118-#8 A-C	7.23Y	120.5	0.00	5.46	0.00	0	0	0	0	0.00	0.0	5.498	0.625	0	0	0	0 P
Feeder NO. 1 Beginning with Node Element 8121																				
8121	8120	ABC	Node	7.56Y	126.0	0.00	0.00	81.05	0	1801	367	98	0.00	0.0	0.000	0.000	0	0	0	386
432	8121	ABC	098-#3/0 A	7.51Y	125.1	0.90	0.90	81.05	27	1801	367	98	10.53	0.6	0.815	0.815	207	39	54	386
859	432	ABC	098-#3/0 A	7.42Y	123.7	1.42	2.32	71.73	24	1584	316	98	14.66	0.9	2.259	1.444	186	9	60	332
OCR-431	859	ABC	012-100-L	7.42Y	123.7	0.00	2.32	21.34	21	475	24	100	0.00	0.0	2.259	0.000	0	0	0	79
431	OCR-431	ABC	098-#3/0 A	7.40Y	123.4	0.29	2.61	21.34	7	475	24	100	0.96	0.2	3.548	1.289	151	7	27	79
863	431	ABC	106-#2 ACS	7.40Y	123.4	0.01	2.62	14.54	8	322	16	100	0.02	0.0	3.565	0.017	0	0	0	52
OCR-1863	863	ABC	050-140-11	7.40Y	123.4	0.00	2.62	14.54	10	322	16	100	0.00	0.0	3.565	0.000	0	0	0	52
1863	OCR-1863	ABC	106-#2 ACS	7.39Y	123.2	0.14	2.76	14.54	8	322	16	100	0.32	0.1	4.020	0.455	86	4	9	52
4811	1863	C	106-#2 ACS	7.39Y	123.1	0.15	2.91	16.88	9	125	6	100	0.10	0.1	4.657	0.637	125	6	23	23
4810	1863	A	106-#2 ACS	7.39Y	123.1	0.14	2.90	15.11	8	112	5	100	0.08	0.1	4.689	0.669	112	5	20	20
430	859	ABC	116-4-ACWC	7.30Y	121.7	2.00	4.32	42.56	24	909	267	96	10.49	1.2	5.069	2.810	612	246	107	193

Balanced Voltage Drop Report
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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	Element				
																Length (mi)	KW	KVAR	Cons On	Cons Thru
FUSE-956	868	A	085-50N FU	7.43Y	123.9	0.00	2.13	21.65	22	159	26	99	0.00	0.0	3.901	0.000	0	0	0	27
956	FUSE-956	A	106-#2 ACS	7.42Y	123.7	0.15	2.28	21.65	12	159	26	99	0.12	0.1	4.364	0.463	159	26	27	27
FUSE-883	868	A	085-50N FU	7.43Y	123.9	0.00	2.13	20.65	21	151	25	99	0.00	0.0	3.901	0.000	0	0	0	22
883	FUSE-883	A	106-#2 ACS	7.42Y	123.7	0.18	2.31	20.65	11	151	25	99	0.13	0.1	4.474	0.573	151	25	22	22
FUSE-881	868	B	084-40N FU	7.43Y	123.9	0.00	2.13	29.80	37	219	36	99	0.00	0.0	3.901	0.000	0	0	0	34
881	FUSE-881	B	106-#2 ACS	7.41Y	123.5	0.39	2.51	29.80	17	219	36	99	0.41	0.2	4.748	0.847	218	35	34	34
FUSE-870	868	C	085-50N FU	7.43Y	123.9	0.00	2.13	15.95	16	117	19	99	0.00	0.0	3.901	0.000	0	0	0	25
870	FUSE-870	C	110-#4 ACS	7.43Y	123.8	0.06	2.19	15.95	11	117	19	99	0.03	0.0	4.463	0.562	117	19	25	25
FUSE-869	868	C	083-30N FU	7.43Y	123.9	0.00	2.13	19.02	32	140	23	99	0.00	0.0	3.901	0.000	0	0	0	23
869	FUSE-869	C	106-#2 ACS	7.42Y	123.7	0.16	2.29	19.02	11	140	23	99	0.11	0.1	4.451	0.551	139	23	23	23
OCR-878	876	ABC	012-100-L	7.47Y	124.5	0.00	1.46	43.83	44	969	160	99	0.00	0.0	2.884	0.000	0	0	0	153
878	OCR-878	ABC	090-336 AC	7.46Y	124.3	0.28	1.75	43.83	8	969	160	99	1.23	0.1	4.491	1.606	710	116	123	153
FUSE-882	878	A	082-25N FU	7.46Y	124.3	0.00	1.75	16.70	33	123	20	99	0.00	0.0	4.491	0.000	0	0	0	15
882	FUSE-882	A	106-#2 ACS	7.45Y	124.1	0.15	1.90	16.70	9	123	20	99	0.09	0.1	5.092	0.602	123	20	15	15
FUSE-880	878	B	085-50N FU	7.46Y	124.3	0.00	1.75	18.33	18	135	22	99	0.00	0.0	4.491	0.000	0	0	0	15
880	FUSE-880	B	106-#2 ACS	7.45Y	124.1	0.15	1.89	18.33	10	135	22	99	0.10	0.1	5.021	0.530	135	22	15	15
FUSE-877	876	A	085-50N FU	7.47Y	124.5	0.00	1.46	15.52	16	114	19	99	0.00	0.0	2.884	0.000	0	0	0	18
877	FUSE-877	A	106-#2 ACS	7.46Y	124.3	0.24	1.70	15.52	9	114	19	99	0.13	0.1	3.873	0.989	114	19	18	18
FUSE-874	873	ABC	082-25N FU	7.26Y	121.1	0.00	4.93	18.85	38	405	66	99	0.00	0.0	1.830	0.000	0	0	0	65
874	FUSE-874	ABC	098-#3/0 A	7.25Y	120.8	0.27	5.20	18.85	6	405	66	99	0.52	0.1	3.845	2.016	405	66	65	65
OCR-872	480	A	007- 50-H	7.29Y	121.6	0.00	4.42	23.79	48	171	28	99	0.00	0.0	1.610	0.000	0	0	0	33
872	OCR-872	A	106-#2 ACS	7.27Y	121.2	0.43	4.85	23.79	13	171	28	99	0.36	0.2	2.777	1.167	171	28	33	33
OCR-871	480	C	061-50-4H	7.29Y	121.6	0.00	4.42	20.74	41	149	24	99	0.00	0.0	1.610	0.000	0	0	0	33
871	OCR-871	C	106-#2 ACS	7.27Y	121.2	0.40	4.82	20.74	12	149	24	99	0.29	0.2	2.853	1.244	149	24	33	33
FUSE-573	8120	ABC	082-25N FU	7.56Y	126.0	0.00	0.00	29.26	59	650	132	98	0.00	0.0	0.000	0.000	0	0	0	153
----- Feeder NO. 2 Beginning with Node Element 8122 -----																				
8122	FUSE-573	ABC	Node	7.56Y	126.0	0.00	0.00	29.26	0	650	132	98	0.00	0.0	0.000	0.000	0	0	0	153
573	8122	ABC	098-#3/0 A	7.50Y	125.0	1.04	1.04	29.26	10	650	132	98	3.38	0.5	4.016	4.016	503	100	125	153
FUSE-860	573	B	082-25N FU	7.50Y	125.0	0.00	1.04	19.56	39	144	29	98	0.00	0.0	4.016	0.000	0	0	0	28
860	FUSE-860	B	117-#6 A-C	7.47Y	124.6	0.41	1.45	19.56	14	144	29	98	0.29	0.2	4.949	0.933	144	28	28	28

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of Kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total		
KW	10685	0	0	0	0	0	318	0.00	11004	Lowest Voltage = 119.27 on Element 578	
KVAR	1889	0	0	0	0	0	345		2234	Max Accm VoltD = 6.73 on Element 578	
										Max Elem VoltD = 4.42 on Element 480	

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BATTLETOWN WINTER BASE

Detail

Balanced Voltage Drop Report
Source: 8500

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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	
8500		ABC	SRC-8500-D	7.56Y	126.0	0.00	0.00	134.58	0	2931	853	96	0.00	0.0	0.000	0.000	0	0	0	455
P CAP27	8500	ABC	Capacitor	7.56Y	126.0	0.00	0.00	-26.18	0	0	-594	0	0.00	0.0	0.000	0.000	0	0	0	0 P
----- Feeder NO. 3 Beginning with Node Element 8503																				
8503	8500	ABC	Node	7.56Y	126.0	0.00	0.00	98.57	0	2054	883	92	0.00	0.0	0.000	0.000	0	0	0	149
323	8503	ABC	098-#3/O A	7.48Y	124.7	1.30	1.30	98.57	33	2054	883	92	16.90	0.8	0.807	0.807	19	3	16	149
OCR-320	323	C	007- 50-H	7.48Y	124.7	0.00	1.30	0.00	0	0	0	0	0.00	0.0	0.807	0.000	0	0	0	0
P 320	OCR-320	C	118-#8 A-C	7.48Y	124.7	0.00	1.30	0.00	0	0	0	0	0.00	0.0	3.381	2.573	0	0	0	0 P
4112	323	ABC	098-#3/O A	7.39Y	123.2	1.52	2.82	97.74	33	2018	861	92	19.62	1.0	1.754	0.947	0	0	0	133
837	4112	ABC	Regulator	7.56Y	126.0	-2.82	0.00	97.74	30	1998	839	92	0.00	0.0	1.754	0.000	0	0	0	133
322	837	ABC	098-#3/O A	7.51Y	125.1	0.87	0.87	95.56	32	1998	839	92	10.97	0.5	2.309	0.555	7	1	4	133
OCR-321	322	ABC	007- 50-H	7.51Y	125.1	0.00	0.87	34.12	68	726	-252	-94	0.00	0.0	2.309	0.000	0	0	0	78
321	OCR-321	ABC	106-#2 ACS	7.45Y	124.2	0.98	1.85	34.12	19	726	-252	-94	8.10	1.1	4.004	1.695	29	4	20	78
OCR-317	321	B	007- 50-H	7.45Y	124.2	0.00	1.85	5.42	11	40	6	99	0.00	0.0	4.004	0.000	0	0	0	40
317	OCR-317	B	110-#4 ACS	7.44Y	124.0	0.12	1.97	5.42	4	40	6	99	0.03	0.1	6.012	2.008	16	2	13	40
316	317	B	110-#4 ACS	7.44Y	124.0	0.02	1.99	3.28	2	24	4	99	0.00	0.0	6.523	0.510	0	0	0	27
OCR-315	316	B	005- 25-H	7.44Y	124.0	0.00	1.99	3.28	13	24	4	99	0.00	0.0	6.523	0.000	0	0	0	27
315	OCR-315	B	110-#4 ACS	7.43Y	123.9	0.10	2.09	3.28	2	24	4	99	0.01	0.0	10.313	3.790	20	3	21	27
314	315	B	118-#8 A-C	7.43Y	123.9	0.02	2.11	0.52	1	4	1	97	0.00	0.0	11.250	0.938	4	1	6	6
4002	321	ABC	Capacitor	7.45Y	124.2	0.00	1.85	30.72	0	631	-270	-92	0.00	0.0	4.004	0.000	0	0	0	2
C OCR-839	4002	ABC	006- 35-H	7.45Y	124.2	0.00	1.85	38.80	111	631	595	73	0.00	0.0	4.004	0.000	0	0	0	2 C
839	OCR-839	ABC	098-#3/O A	7.43Y	123.8	0.34	2.19	38.80	13	631	595	73	1.06	0.2	4.982	0.978	630	594	2	2
P 843	839	ABC	220-500 MC	7.43Y	123.8	0.00	2.19	0.00	0	0	0	0	0.00	0.0	5.117	0.135	0	0	0	0 P
OCR-840	321	B	006- 35-H	7.45Y	124.2	0.00	1.85	2.48	7	18	3	99	0.00	0.0	4.004	0.000	0	0	0	16
840	OCR-840	B	106-#2 ACS	7.45Y	124.1	0.06	1.91	2.48	1	18	3	99	0.01	0.0	4.843	0.839	0	0	0	16
842	840	B	220-500 MC	7.45Y	124.1	0.00	1.91	2.06	1	15	2	99	0.00	0.0	4.994	0.151	0	0	0	16
FUSE-318	842	B	081-20M FU	7.45Y	124.1	0.00	1.91	2.06	5	15	2	99	0.00	0.0	4.994	0.000	0	0	0	12
318	FUSE-318	B	117-#6 A-C	7.44Y	124.0	0.08	1.99	2.06	1	15	2	99	0.01	0.0	6.763	1.769	15	2	12	12
OCR-841	840	B	049-100-63	7.45Y	124.1	0.00	1.91	0.42	0	3	0	100	0.00	0.0	4.843	0.000	0	0	0	4
841	OCR-841	B	117-#6 A-C	7.44Y	124.1	0.02	1.93	0.42	0	3	0	100	0.00	0.0	6.704	1.861	3	0	4	4
494	322	ABC	098-#3/O A	7.36Y	122.7	2.38	3.25	73.39	24	1254	1077	76	21.05	1.7	4.129	1.820	27	4	28	51
4071	494	ABC	098-#3/O A	7.30Y	121.7	1.03	4.28	72.37	24	1206	1050	75	8.98	0.7	4.924	0.795	14	2	8	23
OCR-294	4071	ABC	012-100-L	7.30Y	121.7	0.00	4.28	71.82	72	1183	1037	75	0.00	0.0	4.924	0.000	0	0	0	15
294	OCR-294	ABC	098-#3/O A	7.19Y	119.9	1.82	6.10	71.82	24	1183	1037	75	14.82	1.3	6.458	1.534	189	181	11	15
4031	294	ABC	098-#3/O A	7.17Y	119.5	0.40	6.50	59.77	20	979	840	76	2.87	0.3	6.840	0.381	39	27	2	4
835	4031	ABC	098-#3/O A	7.16Y	119.4	0.11	6.61	57.59	19	937	810	76	0.52	0.1	7.056	0.217	937	809	2	2
----- Feeder NO. 2 Beginning with Node Element 8502																				
8502	8500	ABC	Node	7.56Y	126.0	0.00	0.00	20.13	0	423	172	93	0.00	0.0	0.000	0.000	0	0	0	304
331	8502	ABC	098-#3/O A	7.53Y	125.5	0.48	0.48	20.13	7	423	172	93	1.22	0.3	1.583	1.583	63	26	38	304
OCR-330	331	A	006- 35-H	7.53Y	125.5	0.00	0.48	5.40	15	40	6	99	0.00	0.0	1.583	0.000	0	0	0	57
330	OCR-330	A	106-#2 ACS	7.52Y	125.3	0.25	0.73	5.40	3	40	6	99	0.05	0.1	4.603	3.020	40	6	57	57
329	331	ABC	098-#3/O A	7.53Y	125.4	0.10	0.58	15.16	5	313	138	92	0.17	0.1	2.121	0.538	112	107	7	207
OCR-328	329	ABC	007- 50-H	7.53Y	125.4	0.00	0.58	3.00	6	67	10	99	0.00	0.0	2.121	0.000	0	0	0	59
328	OCR-328	ABC	098-#3/O A	7.52Y	125.4	0.04	0.62	3.00	1	67	10	99	0.02	0.0	3.080	0.959	12	2	6	59
735	328	ABC	098-#3/O A	7.52Y	125.3	0.04	0.65	2.46	1	55	8	99	0.01	0.0	4.424	1.343	23	3	21	53
334	735	ABC	098-#3/O A	7.52Y	125.3	0.00	0.66	0.70	0	16	2	99	0.00	0.0	5.150	0.727	16	2	10	10
OCR-327	735	A	005- 25-H	7.52Y	125.3	0.00	0.65	2.22	9	17	3	98	0.00	0.0	4.424	0.000	0	0	0	22
327	OCR-327	A	118-#8 A-C	7.51Y	125.2	0.16	0.82	2.22	2	17	3	98	0.01	0.1	6.681	2.257	17	3	22	22
OCR-326	329	ABC	007- 50-H	7.53Y	125.4	0.00	0.58	6.04	12	135	21	99	0.00	0.0	2.121	0.000	0	0	0	141
326	OCR-326	ABC	098-#3/O A	7.52Y	125.3	0.11	0.69	6.04	2	135	21	99	0.09	0.1	3.775	1.653	52	8	48	141
OCR-325	326	A	006- 35-H	7.52Y	125.3	0.00	0.69	3.63	10	27	4	99	0.00	0.0	3.775	0.000	0	0	0	31
325	OCR-325	A	106-#2 ACS	7.51Y	125.2	0.11	0.81	3.63	2	27	4	99	0.01	0.1	5.800	2.026	27	4	31	31
324	326	ABC	098-#3/O A	7.52Y	125.3	0.03	0.72	2.50	1	56	8	99	0.01	0.0	5.344	1.569	56	8	62	62
FUSE-333	331	C	083-30N FU	7.53Y	125.5	0.00	0.48	0.70	1	5	1	98	0.00	0.0	1.583	0.000	0	0	0	2
333	FUSE-333	C	110-#4 ACS	7.53Y	125.5	0.00	0.48	0.70	1	5	1	98	0.00	0.0	2.582	0.999	5	1	2	2
----- Feeder NO. 1 Beginning with Node Element 8501																				
8501	8500	ABC	Node	7.56Y	126.0	0.00	0.00	26.44	0	454	392	76	0.00	0.0	0.000	0.000	0	0	0	2
FUSE-495	8501	ABC	085-50M FU	7.56Y	126.0	0.00	0.00	26.44	26	454	392	76	0.00	0.0	0.000	0.000	0	0	0	2
495	FUSE-495	ABC	098-#3/O A	7.54Y	125.6	0.36	0.36	26.44	9	454	392	76	0.76	0.2	1.496	1.496	453	391	2	2

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	GenMotors	LoopsMetas	Losses	No Load	Losses	Total			
KW	2823	0	0	0	0	0	107		0.00	2931	Lowest Voltage =	119.39	on Element 835
KVAR	2195	0	-1458	0	0	0	117			853	Max Accm VoltD =	6.61	on Element 835
											Max Elem VoltD =	2.38	on Element 494

FORDSVILLE WINTER WTSR

Detail

Balanced Voltage Drop Report
Source: 8100

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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
8100		ABC	SRC-8100-D	7.56Y	126.0	0.00	0.00	299.51	0	6600	1609	97	0.00	0.0	0.000	0.000	0	0	0	1370
P CAP2	8100	ABC	Capacitor	7.56Y	126.0	0.00	0.00	-26.18	0	0	-594	0	0.00	0.0	0.000	0.000	0	0	0	0 P
----- Feeder NO. 4		Beginning with Node Element 8104																		
8104	8100	ABC	Node	7.56Y	126.0	0.00	0.00	127.96	0	2699	1066	93	0.00	0.0	0.000	0.000	0	0	0	264
492	8104	ABC	098-#3/0 A	7.34Y	122.3	3.68	3.68	127.96	43	2699	1066	93	62.67	2.3	1.814	1.814	87	35	2	264
491	492	ABC	090-336 AC	7.31Y	121.9	0.41	4.09	123.75	23	2550	961	94	4.19	0.2	2.501	0.687	1456	1033	11	262
OCR-15	491	ABC	012-100-L	7.31Y	121.9	0.00	4.09	49.79	50	1089	-84	-100	0.00	0.0	2.501	0.000	0	0	0	251
15	OCR-15	ABC	110-#4 ACS	7.30Y	121.7	0.21	4.30	49.79	36	1089	-84	-100	2.17	0.2	3.252	0.751	37	7	9	251
4015	15	ABC	106-#2 ACS	7.28Y	121.4	0.34	4.64	48.14	27	1050	-95	-100	3.10	0.3	3.582	0.330	52	10	13	242
9	4015	ABC	098-#3/0 A	7.24Y	120.7	0.66	5.30	45.81	15	995	-106	-99	6.00	0.6	5.240	1.658	247	46	48	229
1009	9	ABC	Capacitor	7.24Y	120.7	0.00	5.30	34.92	0	742	-160	-98	0.00	0.0	5.240	0.000	0	0	0	181
1010	1009	ABC	106-#2 ACS	7.22Y	120.3	0.42	5.71	34.77	19	742	144	98	2.35	0.3	5.718	0.478	37	7	7	181
OCR-8	1010	C	006-35-H	7.22Y	120.3	0.00	5.71	18.43	53	131	25	98	0.00	0.0	5.718	0.000	0	0	0	26
8	OCR-8	ABC	106-#2 ACS	7.19Y	119.9	0.42	6.13	18.43	10	131	25	98	0.27	0.2	7.165	1.447	130	24	26	26
7	1010	ABC	106-#2 ACS	7.16Y	119.3	1.00	6.72	26.89	15	572	111	98	3.68	0.6	7.660	1.942	289	56	80	148
4026	7	A	106-#2 ACS	7.15Y	119.2	0.08	6.80	19.78	11	139	26	98	0.08	0.1	7.799	0.139	11	2	4	34
851	4026	A	Regulator	7.56Y	126.0	-6.80	0.00	18.26	6	128	24	98	0.00	0.0	7.799	0.000	0	0	0	30
OCR-1	851	A	006-35-H	7.56Y	126.0	0.00	0.00	17.28	49	128	24	98	0.00	0.0	7.799	0.000	0	0	0	30
1	OCR-1	A	106-#2 ACS	7.53Y	125.5	0.54	0.54	17.28	10	128	24	98	0.33	0.3	9.816	2.017	128	24	30	30
4017	7	ABC	106-#2 ACS	7.15Y	119.2	0.06	6.77	6.63	4	140	26	98	0.06	0.0	8.021	0.362	27	5	6	34
OCR-4	4017	ABC	007-50-H	7.15Y	119.2	0.00	6.77	5.35	11	113	21	98	0.00	0.0	8.021	0.000	0	0	0	28
4	OCR-4	ABC	106-#2 ACS	7.15Y	119.2	0.07	6.84	5.35	3	113	21	98	0.04	0.0	8.944	0.923	109	20	22	28
3	4	ABC	110-#4 ACS	7.15Y	119.2	0.00	6.84	0.17	0	4	1	97	0.00	0.0	10.148	1.204	4	1	6	6
P 4016	4015	ABC	098-#3/0 A	7.28Y	121.4	0.00	4.64	0.00	0	0	0	0	0.00	0.0	3.650	0.068	0	0	0	0 P
----- Feeder NO. 3		Beginning with Node Element 8103																		
8103	8100	ABC	Node	7.56Y	126.0	0.00	0.00	35.63	0	800	114	99	0.00	0.0	0.000	0.000	0	0	0	253
52	8103	ABC	116-4-ACWC	7.42Y	123.7	2.28	2.28	35.63	20	800	114	99	13.23	1.7	2.686	2.686	71	9	23	253
FUSE-51	52	C	082-25N FU	7.42Y	123.7	0.00	2.28	8.26	17	61	8	99	0.00	0.0	2.686	0.000	0	0	0	20
51	FUSE-51	C	118-#8 A-C	7.39Y	123.1	0.63	2.91	8.26	8	61	8	99	0.20	0.3	5.040	2.354	61	8	20	20
50	52	ABC	116-4-ACWC	7.32Y	122.0	1.71	3.99	28.33	16	625	86	99	7.65	1.2	5.374	2.688	118	15	38	200
REG3	50	ABC	Regulator	7.56Y	126.0	-3.99	0.00	22.94	15	499	67	99	0.00	0.0	5.374	0.000	0	0	0	162
OCR-47	REG3	ABC	038-70-E	7.56Y	126.0	0.00	0.00	16.29	23	366	50	99	0.00	0.0	5.374	0.000	0	0	0	116
47	OCR-47	ABC	116-4-ACWC	7.53Y	125.6	0.45	0.45	16.29	9	366	50	99	1.18	0.3	6.552	1.177	44	5	11	116
C OCR-34	47	A	006-35-H	7.53Y	125.6	0.00	0.45	33.64	96	251	35	99	0.00	0.0	6.552	0.000	0	0	0	89 C
34	OCR-34	A	106-#2 ACS	7.37Y	122.8	2.77	3.21	33.64	19	251	35	99	4.45	1.8	9.895	3.344	91	11	40	89
36	34	A	106-#2 ACS	7.34Y	122.3	0.53	3.75	16.74	9	122	16	99	0.43	0.3	11.215	1.319	47	6	14	36
OCR-33	36	A	049-100-63	7.34Y	122.3	0.00	3.75	9.24	9	67	8	99	0.00	0.0	11.215	0.000	0	0	0	21
33	OCR-33	A	118-#8 A-C	7.28Y	121.3	0.94	4.69	9.24	9	67	8	99	0.41	0.6	13.376	2.161	37	5	13	21
32	33	A	117-#6 A-C	7.27Y	121.2	0.12	4.81	4.11	3	30	4	99	0.02	0.1	14.756	1.381	30	4	8	8
1137	36	A	106-#2 ACS	7.33Y	122.2	0.00	3.75	1.00	1	7	1	99	0.00	0.0	11.408	0.193	7	1	1	1
OCR-35	34	A	049-100-63	7.37Y	122.8	0.00	3.21	4.48	4	33	4	99	0.00	0.0	9.895	0.000	0	0	0	13
35	OCR-35	A	118-#8 A-C	7.35Y	122.5	0.31	3.53	4.48	4	33	4	99	0.05	0.2	12.051	2.155	33	4	13	13
4024	47	A	117-#6 A-C	7.52Y	125.4	0.18	0.62	9.37	7	70	9	99	0.09	0.1	7.025	0.473	13	2	2	16
OCR-46	4024	A	006-35-H	7.52Y	125.4	0.00	0.62	7.61	22	57	7	99	0.00	0.0	7.025	0.000	0	0	0	14
46	OCR-46	A	117-#6 A-C	7.50Y	125.0	0.40	1.03	7.61	5	57	7	99	0.12	0.2	9.463	2.438	57	7	14	14
49	REG3	ABC	117-#6 A-C	7.55Y	125.9	0.10	0.10	5.93	4	133	17	99	0.10	0.1	5.829	0.455	15	2	4	46
OCR-769	49	B	006-35-H	7.55Y	125.9	0.00	0.10	15.85	45	119	15	99	0.00	0.0	5.829	0.000	0	0	0	42
769	OCR-769	B	117-#6 A-C	7.47Y	124.5	1.40	1.50	15.85	11	119	15	99	1.15	1.0	8.152	2.323	30	4	11	42
48	769	B	117-#6 A-C	7.42Y	123.6	0.89	2.39	11.85	8	88	11	99	0.40	0.5	11.602	3.450	87	11	31	31
P 1152	52	ABC	116-4-ACWC	7.42Y	123.7	0.00	2.28	0.00	0	0	0	0	0.00	0.0	2.686	0.000	0	0	0	0 P
FUSE-768	52	A	083-30N FU	7.42Y	123.7	0.00	2.28	4.09	7	30	4	99	0.00	0.0	2.686	0.000	0	0	0	10
768	FUSE-768	A	117-#6 A-C	7.42Y	123.6	0.14	2.42	4.09	3	30	4	99	0.02	0.1	4.259	1.573	30	4	10	10
----- Feeder NO. 2		Beginning with Node Element 8102																		
8102	8100	ABC	Node	7.56Y	126.0	0.00	0.00	35.65	0	800	114	99	0.00	0.0	0.000	0.000	0	0	0	238
39	8102	ABC	090-336 AC	7.56Y	125.9	0.07	0.07	35.65	7	800	114	99	0.36	0.0	0.348	0.348	34	4	4	238
38	39	ABC	116-4-ACWC	7.43Y	123.8	2.08	2.15	34.11	19	766	109	99	11.31	1.5	2.995	2.648	115	15	36	234
OCR-37	38	A	007-50-H	7.43Y	123.8	0.00	2.15	2.26	5	17	2	99	0.00	0.0	2.995	0.000	0	0	0	8
37	OCR-37	A	106-#2 ACS	7.43Y	123.8	0.07	2.22	2.26	1	17	2	99	0.01	0.0	5.037	2.041	17	2	8	8
544	38	ABC	106-#2 ACS	7.28Y	121.3	2.51	4.66	28.17	16	622	86	99	11.01	1.8	6.965	3.970	134	17	24	190
FUSE-543	544	A	083-30N FU	7.28Y	121.3	0.00	4.66	5.34	9	39	5	99	0.00	0.0	6.965	0.000	0	0	0	13
543	FUSE-543	A	106-#2 ACS	7.27Y	121.2	0.13	4.79	5.34	3	39	5	99	0.02	0.1	8.557	1.592				

Balanced Voltage Drop Report
Source: 8100

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Units Displayed In Volts																-----Element-----				
-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	% Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru	
20	8101	ABC	090-336 AC	7.46Y	124.3	1.66	1.66	109.03	21	2300	909	93	17.91	0.8	1.953	1.953	200	91	75	615
855	20	ABC	098-#3/0 A	7.46Y	124.3	0.05	1.71	87.07	29	1807	730	93	0.53	0.0	1.985	0.032	11	1	2	282
777	855	ABC	Capacitor	7.46Y	124.3	0.00	1.71	86.60	0	1796	728	93	0.00	0.0	1.985	0.000	0	0	0	280
4014	777	ABC	098-#3/0 A	7.44Y	124.0	0.33	2.04	92.23	31	1796	1016	87	3.82	0.2	2.193	0.208	17	2	4	280
C OCR-19	4014	ABC	012-100-L	7.44Y	124.0	0.00	2.04	91.52	92	1775	1010	87	0.00	0.0	2.193	0.000	0	0	0	276 C
19	OCR-19	ABC	090-336 AC	7.41Y	123.5	0.48	2.51	91.52	17	1775	1010	87	3.72	0.2	2.804	0.610	261	169	2	276
18	19	ABC	098-#3/0 A	7.40Y	123.3	0.19	2.71	73.68	25	1418	819	87	1.28	0.1	3.072	0.269	1138	777	12	200
OCR-4108	18	ABC	011- 70-L	7.40Y	123.3	0.00	2.71	12.69	18	279	40	99	0.00	0.0	3.072	0.000	0	0	0	188
4108	OCR-4108	ABC	098-#3/0 A	7.39Y	123.1	0.15	2.85	12.69	4	279	40	99	0.28	0.1	3.915	0.842	12	2	6	188
OCR-542	4108	ABC	011- 70-L	7.39Y	123.1	0.00	2.85	12.15	17	267	38	99	0.00	0.0	3.915	0.000	0	0	0	182
542	OCR-542	ABC	098-#3/0 A	7.38Y	122.9	0.22	3.07	12.15	4	267	38	99	0.38	0.1	5.379	1.464	64	9	47	182
OCR-14	542	ABC	010- 50-L	7.38Y	122.9	0.00	3.07	9.24	18	202	29	99	0.00	0.0	5.379	0.000	0	0	0	135
14	OCR-14	ABC	098-#3/0 A	7.36Y	122.7	0.18	3.25	9.24	3	202	29	99	0.25	0.1	6.916	1.537	32	5	18	135
4025	14	ABC	106-#2 ACS	7.36Y	122.7	0.09	3.34	7.76	4	170	24	99	0.12	0.1	7.398	0.482	3	0	2	117
OCR-13	4025	C	005- 25-H	7.36Y	122.7	0.00	3.34	9.00	36	66	9	99	0.00	0.0	7.398	0.000	0	0	0	53
13	OCR-13	C	117-#6 A-C	7.33Y	122.2	0.41	3.75	9.00	6	66	9	99	0.14	0.2	9.465	2.067	65	9	53	53
12	4025	ABC	098-#3/0 A	7.36Y	122.6	0.06	3.40	4.63	2	101	14	99	0.04	0.0	8.380	0.981	19	3	7	62
OCR-11	12	A	005- 25-H	7.36Y	122.6	0.00	3.40	4.79	19	35	5	99	0.00	0.0	8.380	0.000	0	0	0	20
11	OCR-11	A	118-#8 A-C	7.33Y	122.2	0.35	3.75	4.79	5	35	5	99	0.06	0.2	10.645	2.265	35	5	20	20
6	12	ABC	098-#3/0 A	7.35Y	122.6	0.02	3.42	2.16	1	47	7	99	0.00	0.0	9.488	1.108	47	7	35	35
OCR-17	19	A	007- 50-H	7.41Y	123.5	0.00	2.51	12.51	25	92	13	99	0.00	0.0	2.804	0.000	0	0	0	74
17	OCR-17	A	106-#2 ACS	7.38Y	123.0	0.51	3.02	12.51	7	92	13	99	0.32	0.3	4.330	1.527	22	3	21	74
16	17	A	106-#2 ACS	7.35Y	122.5	0.45	3.48	9.45	5	69	10	99	0.15	0.2	7.498	3.167	69	10	53	53
FUSE-767	20	A	083-30W FU	7.46Y	124.3	0.00	1.66	7.86	13	58	8	99	0.00	0.0	1.953	0.000	0	0	0	45
767	FUSE-767	A	117-#6 A-C	7.45Y	124.2	0.15	1.81	7.86	6	58	8	99	0.04	0.1	2.817	0.864	58	8	45	45
766	20	ABC	106-#2 ACS	7.46Y	124.3	0.06	1.72	9.85	5	217	38	99	0.07	0.0	2.429	0.476	217	38	213	213

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	6430	0	0	0	0	0	169		0.00	6600	Lowest Voltage = 118.84 on Element 41		
KVAR	2604	0	-1186	0	0	0	192			1609	Max Accum VoltD = 7.16 on Element 41		
											Max Elem VoltD = 3.68 on Element 492		

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BRANDENBURG WINTER DASE

Balanced Voltage Drop Report
Source: 8900

Detail

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		Units Displayed In Volts													Element					
		-Base Voltage:120.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri V	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
8900	Feeder NO. 6	Beginning with Node	ABC SRC-8900-D	.56Y	126.0	0.00	0.00	636.11	0	13974	3587	97	0.00	0.0	0.000	0.000	0	0	0	2507
8906	8900	ABC Node	7.56Y	126.0	0.00	0.00	158.62	0	3492	863	97	0.00	0.0	0.000	0.000	0	0	0	736	
339	8906	ABC	090-336 AC	7.46Y	124.3	1.72	1.72	158.62	30	3492	863	97	32.36	0.9	1.557	1.557	41	7	12	736
700	339	ABC	090-#3/0 A	7.45Y	124.2	0.06	1.78	13.61	5	287	101	94	0.10	0.0	1.952	0.395	108	77	15	78
701	700	ABC	090-#3/0 A	7.45Y	124.2	0.02	1.80	8.10	3	179	25	99	0.02	0.0	2.286	0.334	179	25	63	63
522	339	ABC	090-336 AC	7.44Y	123.9	0.35	2.07	143.27	27	3132	680	98	6.20	0.2	1.920	0.363	7	1	1	646
338	522	ABC	090-#3/0 A	7.36Y	122.7	1.23	3.30	54.33	18	1181	270	97	8.98	0.8	3.758	1.838	327	137	62	230
OCR-512	338	ABC	011-70-L	7.36Y	122.7	0.00	3.30	38.69	55	846	123	99	0.00	0.0	3.758	0.000	0	0	0	169
512	OCR-512	ABC	090-#3/0 A	7.33Y	122.2	0.46	3.76	38.69	13	846	123	99	2.69	0.3	4.663	0.905	87	12	15	169
337	512	ABC	090-#3/0 A	7.30Y	121.7	0.50	4.26	30.75	10	670	96	99	2.22	0.3	5.983	1.320	152	21	31	144
336	337	ABC	090-#3/0 A	7.30Y	121.6	0.16	4.41	12.51	4	271	38	99	0.28	0.1	7.064	1.081	82	11	16	59
335	336	C	106-#2 ACS	7.28Y	121.4	0.19	4.61	26.24	15	190	27	99	0.26	0.1	7.337	0.273	39	5	8	43
4095	335	C	106-#2 ACS	7.26Y	120.9	0.45	5.06	20.85	12	150	21	99	0.46	0.3	8.182	0.845	46	6	14	35
4096	4095	C	106-#2 ACS	7.25Y	120.8	0.15	5.21	14.53	8	104	15	99	0.11	0.1	8.574	0.392	27	4	5	21
4097	4096	C	106-#2 ACS	7.24Y	120.7	0.11	5.33	10.78	6	77	11	99	0.06	0.1	9.027	0.453	36	5	6	16
SECTZR-4098	4097	C	099-SECTIO	7.24Y	120.7	0.00	5.33	5.78	23	41	6	99	0.00	0.0	9.027	0.000	0	0	0	10
4098	SECTZR-4098	C	106-#2 ACS	7.24Y	120.6	0.02	5.35	5.78	3	41	6	99	0.01	0.0	9.163	0.136	0	0	0	10
4099	4098	C	106-#2 ACS	7.24Y	120.6	0.05	5.40	5.78	3	41	6	99	0.01	0.0	9.710	0.547	41	6	10	10
998	337	A	106-#2 ACS	7.28Y	121.4	0.39	4.65	16.52	9	119	17	99	0.23	0.2	7.552	1.569	119	16	27	27
FUSE-511	337	C	083-30W FU	7.30Y	121.7	0.00	4.26	17.23	29	125	17	99	0.00	0.0	5.983	0.000	0	0	0	27
511	FUSE-511	C	110-#4 ACS	7.30Y	121.7	0.07	4.33	17.23	12	125	17	99	0.04	0.0	6.616	0.633	125	17	27	27
FUSE-918	512	B	084-40N FU	7.33Y	122.2	0.00	3.76	11.81	15	86	12	99	0.00	0.0	4.663	0.000	0	0	0	9
918	FUSE-918	B	106-#2 ACS	7.33Y	122.1	0.15	3.91	11.81	7	86	12	99	0.06	0.1	5.514	0.851	86	12	9	9
4128	522	ABC	090-336 AC	7.43Y	123.9	0.04	2.11	88.62	17	1937	394	98	0.42	0.0	1.984	0.064	0	0	0	415
4064	4128	ABC	090-#3/0 A	7.43Y	123.8	0.10	2.21	10.12	3	205	95	91	0.09	0.0	3.174	1.191	205	95	34	34
C	4128	ABC	012-100-L	7.43Y	123.9	0.00	2.11	78.80	79	1732	298	99	0.00	0.0	1.984	0.000	0	0	0	381
523	OCR-523	ABC	090-#3/0 A	7.38Y	123.0	0.89	2.99	78.80	26	1732	298	99	10.00	0.6	2.883	0.899	367	91	64	381
4926	523	ABC	090-#3/0 A	7.35Y	122.6	0.45	3.44	61.84	21	1355	196	99	4.21	0.3	3.430	0.547	119	16	18	317
524	4926	ABC	090-#3/0 A	7.33Y	122.1	0.44	3.88	49.92	17	1090	156	99	2.96	0.3	4.227	0.798	445	61	109	267
822	524	ABC	090-#3/0 A	7.31Y	121.8	0.29	4.17	29.50	10	642	91	99	1.31	0.2	4.948	0.721	29	4	5	158
OCR-705	822	A	049-100-63	7.31Y	121.8	0.00	4.17	16.71	17	121	17	99	0.00	0.0	4.948	0.000	0	0	0	40
705	OCR-705	A	106-#2 ACS	7.29Y	121.6	0.26	4.43	16.71	9	121	17	99	0.16	0.1	5.976	1.028	121	17	40	40
FUSE-516	822	A	083-30W FU	7.31Y	121.8	0.00	4.17	18.43	31	133	19	99	0.00	0.0	4.948	0.000	0	0	0	32
516	FUSE-516	A	110-#4 ACS	7.30Y	121.7	0.12	4.29	18.43	13	133	19	99	0.07	0.1	5.921	0.973	133	18	32	32
OCR-344	822	ABC	049-100-63	7.31Y	121.8	0.00	4.17	16.45	16	357	50	99	0.00	0.0	4.948	0.000	0	0	0	81
344	OCR-344	ABC	090-#3/0 A	7.30Y	121.7	0.14	4.30	16.45	5	357	50	99	0.29	0.1	5.797	0.849	201	28	48	81
OCR-517	344	C	049-100-63	7.30Y	121.7	0.00	4.30	21.58	22	156	22	99	0.00	0.0	5.797	0.000	0	0	0	33
517	OCR-517	C	106-#2 ACS	7.28Y	121.3	0.44	4.75	21.58	12	156	22	99	0.34	0.2	7.148	1.351	156	22	33	33
OCR-4927	4926	A	049-100-63	7.35Y	122.6	0.00	3.44	19.46	19	142	20	99	0.00	0.0	3.430	0.000	0	0	0	32
4927	OCR-4927	A	110-#4 ACS	7.35Y	122.5	0.10	3.54	19.46	14	142	20	99	0.06	0.0	4.182	0.752	142	20	32	32
	Feeder NO. 5	Beginning with Node	Element	8905																
8905	8900	ABC Node	7.56Y	126.0	0.00	0.00	106.76	0	2251	891	93	0.00	0.0	0.000	0.000	0	0	0	477	
C fuse347	8905	ABC	083-30W FU	7.56Y	126.0	0.00	0.00	106.76	178	2251	891	93	0.00	0.0	0.000	0.000	0	0	0	477
C 347	fuse347	ABC	110-#4 ACS	7.42Y	123.7	2.35	2.35	106.76	76	2251	891	93	26.46	1.2	2.325	2.325	398	258	87	477
503	347	ABC	090-#3/0 A	7.34Y	122.4	1.24	3.59	86.16	29	1827	583	95	14.07	0.8	3.358	1.033	297	199	39	390
346	503	ABC	090-#3/0 A	7.31Y	121.8	0.58	4.17	51.83	17	1121	220	98	4.21	0.4	4.248	0.890	250	84	68	311
4063	346	ABC	090-#3/0 A	7.26Y	121.1	0.77	4.94	39.98	13	867	132	99	4.54	0.5	5.761	1.513	146	16	59	243
OCR-345	4063	ABC	007-50-H	7.26Y	121.1	0.00	4.94	12.70	25	275	31	99	0.00	0.0	5.761	0.000	0	0	0	85
345	OCR-345	ABC	090-#3/0 A	7.25Y	120.8	0.27	5.21	12.70	4	275	31	99	0.52	0.2	7.498	1.737	49	5	13	85
P 4065	345	ABC	090-#3/0 A	7.25Y	120.8	0.00	5.21	0.00	0	0	0	0	0.00	0.0	7.522	0.024	0	0	0	P
4047	345	A	106-#2 ACS	7.24Y	120.7	0.13	5.34	13.91	8	100	11	99	0.07	0.1	8.122	0.624	100	11	35	35
496	345	ABC	090-#3/0 A	7.24Y	120.7	0.05	5.26	5.79	2	125	14	99	0.04	0.0	8.183	0.685	28	3	7	37
343	496	ABC	090-#3/0 A	7.24Y	120.7	0.01	5.26	1.57	1	34	4	99	0.00	0.0	8.765	0.582	34	4	8	8
FUSE-996	496	A	083-30W FU	7.24Y	120.7	0.00	5.26	8.72	15	63	7	99	0.00	0.0	8.183	0.000	0	0	0	22
996	FUSE-996	A	106-#2 ACS	7.23Y	120.6	0.17	5.43	8.72	5	63	7	99	0.05	0.1	9.478	1.295	63	7	22	22
342	4063	ABC	090-#3/0 A	7.25Y	120.9	0.15	5.09	14.84	5	317	66	98	0.31	0.1	6.542	0.781	67	7	17	68
OCR-341	342	C	007-50-H	7.25Y	120.9	0.00	5.09	22.78	46	164	19	99	0.00	0.0	6.542	0.000	0	0	0	34
341	OCR-341	C	106-#2 ACS	7.21Y	120.1	0.76	5.85	22.78	13	164	19	99	0.85	0.5						

Balanced Voltage Drop Report
Source: 8900

Database: C:\MILSOFT\DATA\ORIGINAL FROM POE\WINTER MODEL 2005.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			Thru			KVAR	% PF	kW Loss	% Loss	mi		Element		Cons On	Cons Thru
							Drop	Amps	Cap	kW	kVAR	From Src					Length (mi)	kW	KVAR			
529	OCR-529	ABC	098-#3/0 A	7.31Y	121.8	1.17	4.19	62.99	21	1370	259	98	10.33	0.8	3.738	1.476	321	58	83	326		
OCR-528	529	A	006- 35-H	7.31Y	121.8	0.00	4.19	15.71	45	113	20	98	0.00	0.0	3.738	0.000	0	0	0	31		
528	OCR-528	A	117-#6 A-C	7.27Y	121.2	0.58	4.77	15.71	11	113	20	98	0.33	0.3	5.389	1.651	113	20	31	31		
531	529	ABC	098-#3/0 A	7.29Y	121.5	0.36	4.55	38.42	13	829	152	98	1.92	0.2	4.475	0.737	193	35	29	187		
351	531	ABC	098-#3/0 A	7.29Y	121.4	0.02	4.57	4.07	1	87	16	98	0.01	0.0	5.194	0.719	87	16	24	24		
350	531	ABC	116-4-ACWC	7.26Y	121.0	0.47	5.01	25.37	14	546	99	98	1.67	0.3	5.421	0.946	249	45	70	134		
OCR-349	350	ABC	011- 70-L	7.26Y	121.0	0.00	5.01	8.89	13	190	34	98	0.00	0.0	5.421	0.000	0	0	0	33		
349	OCR-349	ABC	098-#3/0 A	7.25Y	120.9	0.10	5.11	8.89	3	190	34	98	0.10	0.1	6.509	1.088	115	21	22	33		
OCR-750	349	ABC	011- 70-L	7.25Y	120.9	0.00	5.11	3.54	5	76	14	98	0.00	0.0	6.509	0.000	0	0	0	11		
750	OCR-750	ABC	098-#3/0 A	7.25Y	120.9	0.03	5.14	3.54	1	76	14	98	0.01	0.0	7.781	1.272	76	14	11	11		
OCR-348	350	B	006- 35-H	7.26Y	121.0	0.00	5.01	14.64	42	105	19	98	0.00	0.0	5.421	0.000	0	0	0	31		
348	OCR-348	B	106-#2 ACS	7.23Y	120.5	0.49	5.51	14.64	8	105	19	98	0.25	0.2	7.589	2.168	104	19	31	31		
FUSE-530	529	A	083-30M FU	7.31Y	121.8	0.00	4.19	13.56	23	98	18	98	0.00	0.0	3.738	0.000	0	0	0	25		
530	FUSE-530	A	110-#4 ACS	7.30Y	121.7	0.07	4.26	13.56	10	98	18	98	0.03	0.0	4.430	0.692	98	18	25	25		
Feeder NO. 3 Beginning with Node Element 8903																						
8903	8900	ABC	Node	7.56Y	126.0	0.00	0.00	134.92	0	2968	745	97	0.00	0.0	0.000	0.000	0	0	0	436		
4058	8903	ABC	098-#3/0 A	7.55Y	125.8	0.18	0.18	134.92	45	2968	745	97	3.32	0.1	0.108	0.108	737	427	38	436		
354	4058	ABC	098-#3/0 A	7.49Y	124.8	0.97	1.15	99.35	33	2228	314	99	14.44	0.6	0.879	0.770	325	91	53	398		
4059	354	ABC	098-#3/0 A	7.49Y	124.8	0.06	1.21	27.56	9	595	172	96	0.19	0.0	1.053	0.174	227	119	26	56		
4060	4059	ABC	098-#3/0 A	7.49Y	124.8	0.03	1.23	16.56	6	368	53	99	0.04	0.0	1.279	0.226	368	53	30	30		
P 4061	4060	ABC	098-#3/0 A	7.49Y	124.8	0.00	1.23	0.00	0	0	0	0	0.00	0.0	1.310	0.031	0	0	0	0		
624	354	ABC	098-#3/0 A	7.45Y	124.1	0.73	1.88	43.63	15	980	28	100	4.77	0.5	2.603	1.725	423	9	82	199		
429	624	ABC	098-#3/0 A	7.43Y	123.9	0.20	2.08	24.73	8	552	13	100	0.64	0.1	3.720	1.117	447	10	94	117		
OCR-353	429	C	006- 35-H	7.43Y	123.9	0.00	2.08	14.03	40	104	2	100	0.00	0.0	3.720	0.000	0	0	0	23		
353	OCR-353	C	106-#2 ACS	7.43Y	123.8	0.16	2.25	14.03	8	104	2	100	0.09	0.1	4.559	0.839	104	2	23	23		
615	354	ABC	098-#3/0 A	7.47Y	124.6	0.28	1.43	13.93	5	313	8	100	0.54	0.2	3.235	2.356	197	4	50	90		
OCR-584	615	A	007- 50-H	7.47Y	124.6	0.00	1.43	15.50	31	116	3	100	0.00	0.0	3.235	0.000	0	0	0	40		
584	OCR-584	A	106-#2 ACS	7.45Y	124.2	0.34	1.77	15.50	9	116	3	100	0.21	0.2	4.812	1.577	116	3	40	40		
Feeder NO. 2 Beginning with Node Element 8902																						
8902	8900	ABC	Node	7.56Y	126.0	0.00	0.00	61.73	0	1400	0	100	0.00	0.0	0.000	0.000	0	0	0	60		
203	8902	ABC	098-#3/0 A	7.55Y	125.8	0.20	0.20	61.73	21	1400	0	100	2.09	0.1	0.327	0.327	384	80	2	60		
4055	203	ABC	098-#3/0 A	7.55Y	125.8	0.03	0.23	44.90	15	1013	-82	-100	0.24	0.0	0.384	0.057	38	-5	2	58		
4056	4055	ABC	098-#3/0 A	7.54Y	125.7	0.05	0.28	43.19	14	975	-78	-100	0.38	0.0	0.631	0.246	848	134	48	56		
P 852	4056	ABC	Capacitor	7.54Y	125.7	0.00	0.28	10.89	0	126	-212	-51	0.00	0.0	0.631	0.000	0	0	0	8		
4057	852	ABC	098-#3/0 A	7.54Y	125.7	0.00	0.28	5.94	2	126	-47	-94	0.00	0.0	0.669	0.038	126	-47	8	8		
P 854	852	ABC	098-#3/0 A	7.54Y	125.7	0.00	0.28	0.00	0	0	0	0	0.00	0.0	0.676	0.045	0	0	0	0		
P 4054	203	ABC	098-#3/0 A	7.55Y	125.8	0.00	0.20	0.00	0	0	0	0	0.00	0.0	0.333	0.006	0	0	0	0		
Feeder NO. 1 Beginning with Node Element 8901																						
8901	8900	ABC	Node	7.56Y	126.0	0.00	0.00	69.67	0	1501	494	95	0.00	0.0	0.000	0.000	0	0	0	319		
365	8901	ABC	098-#3/0 A	7.51Y	125.2	0.81	0.81	69.67	23	1501	494	95	7.33	0.5	0.808	0.808	290	33	109	319		
363	365	ABC	098-#3/0 A	7.42Y	123.7	1.51	2.32	50.57	17	1057	426	93	9.61	0.9	2.817	2.009	181	69	21	172		
362	363	ABC	098-#3/0 A	7.40Y	123.4	0.32	2.63	26.50	9	575	130	98	1.23	0.2	3.627	0.810	0	0	0	146		
594	362	ABC	098-#3/0 A	7.39Y	123.2	0.12	2.76	26.50	9	574	129	98	0.47	0.1	3.945	0.318	18	2	2	146		
360	594	ABC	098-#3/0 A	7.38Y	123.0	0.19	2.95	25.70	9	556	126	98	0.70	0.1	4.516	0.572	83	52	4	144		
359	360	ABC	098-#3/0 A	7.37Y	122.9	0.15	3.11	21.57	7	472	74	99	0.52	0.1	5.028	0.511	0	0	0	140		
FUSE-358	359	ABC	081-20M FU	7.37Y	122.9	0.00	3.11	1.18	3	26	4	99	0.00	0.0	5.028	0.000	0	0	0	10		
358	FUSE-358	ABC	098-#3/0 A	7.37Y	122.9	0.01	3.11	1.18	0	26	4	99	0.00	0.0	5.637	0.609	16	3	5	10		
595	358	B	117-#6 A-C	7.37Y	122.9	0.02	3.13	1.37	1	10	1	100	0.00	0.0	6.333	0.696	10	1	5	5		
357	359	ABC	098-#3/0 A	7.37Y	122.8	0.14	3.25	13.21	4	289	42	99	0.29	0.1	5.867	0.839	28	12	4	80		
OCR-752	357	ABC	006- 35-H	7.37Y	122.8	0.00	3.25	11.86	34	260	29	99	0.00	0.0	5.867	0.000	0	0	0	76		
752	OCR-752	ABC	098-#3/0 A	7.36Y	122.6	0.11	3.36	11.86	4	260	29	99	0.14	0.1	7.266	1.399	260	29	76	76		
596	359	ABC	098-#3/0 A	7.37Y	122.9	0.01	3.12	7.18	2	156	28	98	0.01	0.0	5.282	0.255	156	28	50	50		
364	363	ABC	098-#3/0 A	7.41Y	123.5	0.17	2.49	16.25	5	291	215	80	0.23	0.1	4.020	1.204	291	215	5	5		
585	365	ABC	110-#4 ACS	7.51Y	125.2	0.01	0.82	6.63	5	147	27	98	0.01	0.0	1.172	0.364	147	27	38	38		

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	13744	0	0	0	0	0	230	0.00		13974	Lowest Voltage = 120.05 on Element 4138	
KVAR	3428	0	-165	0	0	0	324			3587	Max Accm VoltD = 5.95 on Element 4138	
											Max Elem VoltD = 2.37 on Element 352	

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Cluster Winter Base

Detail

Balanced Voltage Drop Report
Source: 8110

Database: C:\MILSOFT\DATA\ORIGINAL FROM POE\WINTER MODEL 2005.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	Thru Cap	Thru KW	KVAR	% PF	% Loss	% Loss	mi From Src	Length (mi)	Element KW	Element KVAR	Cons On	Cons Thru
8110		ABC	SRC-8110-D	7.56Y	126.0	0.00	0.00	240.56	0	5401	770	99	0.00	0.0	0.000	0.000	0	0	0	1317
----- Feeder NO. 1 Beginning with Node Element 8111																				
8111	8110	ABC	Node	7.56Y	126.0	0.00	0.00	69.09	0	1551	222	99	0.00	0.0	0.000	0.000	0	0	0	412
242	8111	ABC	098-#3/0 A	7.51Y	125.2	0.80	0.80	69.09	23	1551	222	99	8.59	0.6	0.862	0.862	70	9	9	412
244	242	ABC	098-#3/0 A	7.45Y	124.1	1.07	1.87	56.55	19	1262	177	99	8.99	0.7	2.354	1.492	206	25	53	329
FUSE-241	244	A	082-25M FU	7.45Y	124.1	0.00	0.00	6.96	14	51	6	99	0.00	0.0	2.354	0.000	0	0	0	11
241	FUSE-241	A	117-#6 A-C	7.43Y	123.9	0.24	2.11	6.96	5	51	6	99	0.06	0.1	3.920	1.566	51	6	11	11
240	244	ABC	098-#3/0 A	7.43Y	123.8	0.36	2.23	44.99	15	996	135	99	2.45	0.2	2.974	0.620	123	15	39	265
4905	240	ABC	098-#3/0 A	7.42Y	123.7	0.09	2.32	39.44	13	871	117	99	0.53	0.1	3.131	0.157	0	0	0	226
238	4905	ABC	098-#3/0 A	7.34Y	122.4	1.27	3.59	39.44	13	870	117	99	7.14	0.8	5.916	2.785	265	32	71	226
OCR-237	238	A	007- 50-H	7.34Y	122.4	0.00	3.59	16.40	33	120	15	99	0.00	0.0	5.916	0.000	0	0	0	37
237	OCR-237	A	106-#2 ACS	7.30Y	121.7	0.67	4.26	16.40	9	120	15	99	0.49	0.4	7.801	1.885	67	8	18	37
FUSE-235	237	A	081-20N FU	7.30Y	121.7	0.00	4.26	7.23	18	52	6	99	0.00	0.0	7.801	0.000	0	0	0	19
235	FUSE-235	A	118-#8 A-C	7.26Y	121.6	0.77	5.03	7.23	7	52	6	99	0.21	0.4	11.091	3.291	52	6	19	19
234	238	ABC	098-#3/0 A	7.32Y	121.9	0.46	4.05	21.87	7	478	61	99	1.51	0.3	7.630	1.714	91	11	25	118
233	234	ABC	098-#3/0 A	7.30Y	121.6	0.32	4.37	17.07	6	372	47	99	0.70	0.2	9.487	1.857	200	24	42	91
OCR-232	233	C	006- 35-H	7.30Y	121.6	0.00	4.37	13.86	40	100	13	99	0.00	0.0	9.487	0.000	0	0	0	32
232	OCR-232	C	106-#2 ACS	7.26Y	120.9	0.71	5.08	13.86	8	100	13	99	0.36	0.4	12.884	3.397	100	12	32	32
FUSE-713	233	C	081-20N FU	7.30Y	121.6	0.00	4.37	9.80	25	71	9	99	0.00	0.0	9.487	0.000	0	0	0	17
713	FUSE-713	C	117-#6 A-C	7.28Y	121.4	0.26	4.63	9.80	7	71	9	99	0.10	0.1	10.716	1.229	71	9	17	17
FUSE-482	234	C	082-25M FU	7.32Y	121.9	0.00	4.05	1.90	4	14	2	99	0.00	0.0	7.630	0.000	0	0	0	2
482	FUSE-482	C	117-#6 A-C	7.31Y	121.9	0.05	4.11	1.90	1	14	2	99	0.00	0.0	8.938	1.308	14	2	2	2
OCR-243	242	C	007- 50-H	7.51Y	125.2	0.00	0.80	28.26	57	211	27	99	0.00	0.0	0.862	0.000	0	0	0	74
243	OCR-243	C	106-#2 ACS	7.42Y	123.6	1.56	2.37	28.26	16	211	27	99	2.02	1.0	3.311	2.449	104	13	31	74
712	243	C	106-#2 ACS	7.40Y	123.4	0.22	2.59	7.31	4	54	7	99	0.06	0.1	5.361	2.050	54	7	20	20
255	243	C	106-#2 ACS	7.41Y	123.5	0.17	2.53	6.93	4	51	6	99	0.04	0.1	4.910	1.598	51	6	23	23
----- Feeder NO. 2 Beginning with Node Element 8112																				
8112	8110	ABC	Node	7.56Y	126.0	0.00	0.00	89.01	0	1999	284	99	0.00	0.0	0.000	0.000	0	0	0	461
256	8112	ABC	098-#3/0 A	7.40Y	123.4	2.62	2.62	89.01	30	1999	284	99	35.71	1.8	2.322	2.322	227	109	31	461
253	256	ABC	098-#3/0 A	7.28Y	121.3	2.07	4.68	72.96	24	1615	128	100	24.81	1.5	4.557	2.235	75	4	11	403
OCR-252	253	A	007- 50-H	7.28Y	121.3	0.00	4.68	31.46	63	229	14	100	0.00	0.0	4.557	0.000	0	0	0	70
252	OCR-252	A	106-#2 ACS	7.15Y	119.2	2.16	6.84	31.46	17	229	14	100	3.46	1.5	7.439	2.882	76	4	30	70
727	252	A	106-#2 ACS	7.14Y	119.0	0.15	6.99	9.95	6	71	4	100	0.06	0.1	8.503	1.063	71	3	19	19
FUSE-254	252	A	081-20N FU	7.15Y	119.2	0.00	6.84	10.87	27	78	4	100	0.00	0.0	7.439	0.000	0	0	0	21
254	FUSE-254	A	118-#8 A-C	7.13Y	118.8	0.31	7.15	10.87	11	78	4	100	0.13	0.2	8.344	0.905	77	4	21	21
989	253	ABC	Regulator	7.56Y	126.0	-4.68	0.00	59.04	27	1287	82	100	0.00	0.0	4.557	0.000	0	0	0	322
988	989	ABC	098-#3/0 A	7.51Y	125.2	0.81	0.81	56.85	19	1287	82	100	7.55	0.6	5.714	1.158	108	5	24	322
987	988	ABC	098-#3/0 A	7.51Y	125.2	0.03	0.84	52.04	17	1171	68	100	0.27	0.0	5.760	0.046	0	0	0	298
OCR-249	987	ABC	007- 50-H	7.51Y	125.2	0.00	0.84	36.83	74	828	51	100	0.00	0.0	5.760	0.000	0	0	0	231
249	OCR-249	ABC	098-#3/0 A	7.45Y	124.2	0.97	1.82	36.83	12	828	51	100	5.90	0.7	7.921	2.160	73	4	20	231
FUSE-248	249	C	082-25M FU	7.45Y	124.2	0.00	1.82	4.65	9	35	2	100	0.00	0.0	7.921	0.000	0	0	0	6
248	FUSE-248	C	110-#4 ACS	7.45Y	124.2	0.03	1.85	4.65	3	35	2	100	0.01	0.0	9.039	1.118	35	2	6	6
247	249	ABC	098-#3/0 A	7.43Y	123.8	0.37	2.18	24.84	8	554	30	100	1.45	0.3	9.190	1.269	101	5	23	169
FUSE-747	247	C	082-25M FU	7.43Y	123.8	0.00	2.18	14.03	28	104	5	100	0.00	0.0	9.190	0.000	0	0	0	35
747	FUSE-747	C	117-#6 A-C	7.41Y	123.5	0.33	2.52	14.03	10	104	5	100	0.18	0.2	10.326	1.135	104	5	35	35
FUSE-744	247	A	082-25M FU	7.43Y	123.8	0.00	2.18	12.67	25	94	5	100	0.00	0.0	9.190	0.000	0	0	0	29
744	FUSE-744	A	118-#8 A-C	7.37Y	122.8	1.01	3.19	12.67	13	94	5	100	0.50	0.5	11.704	2.514	94	5	29	29
OCR-407	247	A	051-140-63	7.43Y	123.8	0.00	2.18	26.40	19	196	11	100	0.00	0.0	9.190	0.000	0	0	0	61
407	OCR-407	A	110-#4 ACS	7.40Y	123.3	0.55	2.73	26.40	19	196	11	100	0.63	0.3	11.621	2.431	111	5	38	61
743	407	A	118-#8 A-C	7.37Y	122.9	0.41	3.14	11.42	11	84	4	100	0.18	0.2	12.760	1.139	84	4	23	23
FUSE-406	247	B	082-25M FU	7.43Y	123.8	0.00	2.18	7.81	16	58	3	100	0.00	0.0	9.190	0.000	0	0	0	21
406	FUSE-406	B	106-#2 ACS	7.42Y	123.6	0.21	2.39	7.81	4	58	3	100	0.06	0.1	11.055	1.865	58	3	21	21
FUSE-742	249	C	082-25M FU	7.45Y	124.2	0.00	1.82	4.36	9	32	2	100	0.00	0.0	7.921	0.000	0	0	0	4
742	FUSE-742	C	110-#4 ACS	7.45Y	124.2	0.02	1.83	4.36	3	32	2	100	0.00	0.0	8.598	0.677	32	2	4	4
OCR-250	249	C	006- 35-H	7.45Y	124.2	0.00	1.82	17.25	49	128	7	100	0.00	0.0	7.921	0.000	0	0	0	32
250	OCR-250	C	106-#2 ACS	7.41Y	123.5	0.66	2.47	17.25	10	128	7	100	0.44	0.3	10.602	2.681	128	6	32	32
OCR-246	987	ABC	007- 50-H	7.51Y	125.2	0.00	0.84	15.22	30	342	17	100	0.00	0.0	5.760	0.000	0	0	0	67
246	OCR-246	ABC	098-#3/0 A	7.49Y	124.8	0.33	1.17	15.22	5	342	17	100	0.57	0.2	9.140	3.380	342	17	67	67
FUSE-723	256	C	081-20N FU	7.40Y	123.4	0.00	2.62	9.70	24	72	4	100	0.00	0.0	2.322	0.000	0	0	0	13
723	FUSE-723	C	118-#8 A-C	7.38Y	123.0	0.35	2.96	9.70	10											

Balanced Voltage Drop Report
Source: 8110

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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				Thru				mi From Src	Length (mi)	Element			
							Drop	Thru	%	Thru	KVAR	%	kW	%			Loss	Loss	KW	KVAR
FUSE-218	219	A	082-25N FU	7.28Y	121.4	0.00	4.63	27.10	54	196	24	99	0.00	0.0	5.144	0.000	0	0	0	48
218	FUSE-218	A	118-#8 A-C	7.24Y	120.6	0.77	5.40	27.10	27	196	24	99	0.81	0.4	6.025	0.881	195	23	48	48
217	219	ABC	116-4-ACWC	7.28Y	121.3	0.10	4.73	7.22	4	157	19	99	0.08	0.1	6.234	1.091	156	19	35	35
C OCR-230	227	A	006- 35-H	7.53Y	125.4	0.00	0.57	50.99	146	381	50	99	0.00	0.0	0.288	0.000	0	0	0	85 C
230	OCR-230	A	106-#2 ACS	7.45Y	124.2	1.26	1.83	50.99	28	381	50	99	3.31	0.9	1.188	0.899	65	8	13	85
229	230	A	106-#2 ACS	7.36Y	122.7	1.49	3.32	25.58	14	189	24	99	1.89	1.0	3.441	2.254	52	6	20	54
FUSE-239	229	A	081-20N FU	7.36Y	122.7	0.00	3.32	11.55	29	84	10	99	0.00	0.0	3.441	0.000	0	0	0	22
239	FUSE-239	A	106-#2 ACS	7.34Y	122.4	0.26	3.58	11.55	6	84	10	99	0.11	0.1	4.947	1.506	84	10	22	22
236	229	A	106-#2 ACS	7.35Y	122.5	0.13	3.46	6.95	4	51	6	99	0.03	0.1	4.709	1.267	51	6	12	12
FUSE-228	230	A	081-20N FU	7.45Y	124.2	0.00	1.83	16.70	42	124	15	99	0.00	0.0	1.188	0.000	0	0	0	18
228	FUSE-228	A	106-#2 ACS	7.43Y	123.8	0.34	2.18	16.70	9	124	15	99	0.25	0.2	2.183	0.995	77	9	11	18
710	228	A	106-#2 ACS	7.42Y	123.7	0.17	2.35	6.33	4	47	6	99	0.04	0.1	3.981	1.798	47	6	7	7

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	5239	0	0	0	0	0	162		0.00	5401	Lowest Voltage = 118.85	on Element 254
KVAR	612	0	0	0	0	0	158			770	Max Accum VoltD = 7.15	on Element 254
											Max Elem VoltD = 2.92	on Element 224

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Balanced Voltage Drop Report
Source: 8200

Detail

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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
8200	Feeder NO.	5	ABC SRC-8200-D		7.56Y 126.0	0.00	0.00	193.07	0	4207	1214	96	0.00	0.0	0.000	0.000	0	0	0	1140
Beginning with Node Element 8205																				
8205	8200	ABC	Node		7.56Y 126.0	0.00	0.00	40.07	0	872	255	96	0.00	0.0	0.000	0.000	0	0	0	294
144	8205	ABC	098-#3/0 A		7.55Y 125.8	0.22	0.22	40.07	13	872	255	96	1.21	0.1	0.381	0.381	97	16	26	294
4821	144	ABC	098-#3/0 A		7.54Y 125.7	0.07	0.29	35.76	12	774	238	96	0.35	0.0	0.515	0.134	64	10	22	268
4822	4821	ABC	098-#3/0 A		7.54Y 125.6	0.06	0.35	32.91	11	709	227	95	0.27	0.0	0.634	0.119	35	6	5	246
4824	4822	ABC	098-#3/0 A		7.53Y 125.6	0.07	0.42	31.37	10	674	221	95	0.28	0.0	0.779	0.145	75	12	24	241
770	4824	ABC	098-#3/0 A		7.52Y 125.3	0.27	0.70	28.07	9	599	209	94	0.76	0.1	1.849	1.070	491	190	174	217
P 4953	770	ABC	098-#3/0 A		7.52Y 125.3	0.00	0.70	0.00	0	0	0	0	0.00	0.0	1.881	0.032	0	0	0	0 P
OCR-1772	770	C	049-100-63		7.52Y 125.3	0.00	0.70	5.94	6	44	7	99	0.00	0.0	1.849	0.000	0	0	0	13
1772	OCR-1772	C	106-#2 ACS		7.52Y 125.3	0.01	0.71	5.94	3	44	7	99	0.00	0.0	2.002	0.153	44	7	13	13
OCR-1771	770	A	049-100-63		7.52Y 125.3	0.00	0.70	8.61	9	64	10	99	0.00	0.0	1.849	0.000	0	0	0	30
1771	OCR-1771	A	106-#2 ACS		7.52Y 125.3	0.03	0.73	8.61	5	64	10	99	0.01	0.0	2.066	0.217	64	10	30	30
P 4124	144	ABC	098-#3/0 A		7.55Y 125.8	0.00	0.22	0.00	0	0	0	0	0.00	0.0	0.397	0.016	0	0	0	0 P
Beginning with Node Element 8204																				
8204	8200	ABC	Node		7.56Y 126.0	0.00	0.00	20.68	0	436	172	93	0.00	0.0	0.000	0.000	0	0	0	267
142	8204	ABC	098-#3/0 A		7.54Y 125.7	0.28	0.28	20.68	7	436	172	93	0.69	0.2	1.022	1.022	150	60	90	267
137	142	ABC	098-#3/0 A		7.54Y 125.6	0.10	0.38	12.86	4	270	109	93	0.15	0.1	1.534	0.512	62	20	75	152
4956	137	ABC	098-#3/0 A		7.54Y 125.6	0.02	0.40	9.52	3	198	86	92	0.03	0.0	1.676	0.142	13	3	20	59
4957	4956	ABC	098-#3/0 A		7.54Y 125.6	0.01	0.41	8.93	3	184	83	91	0.01	0.0	1.865	0.188	184	82	39	39
4955	137	ABC	098-#3/0 A		7.54Y 125.6	0.00	0.38	0.49	0	11	3	96	0.00	0.0	1.557	0.023	0	0	0	18
4954	4955	ABC	098-#3/0 A		7.54Y 125.6	0.00	0.38	0.49	0	11	3	96	0.00	0.0	1.705	0.148	11	3	18	18
P 4120	142	ABC	098-#3/0 A		7.54Y 125.7	0.00	0.28	0.00	0	0	0	0	0.00	0.0	1.026	0.004	0	0	0	0 P
OCR-771	142	C	049-100-63		7.54Y 125.7	0.00	0.28	2.09	2	15	4	97	0.00	0.0	1.022	0.000	0	0	0	25
771	OCR-771	C	117-#6 A-C		7.54Y 125.7	0.01	0.29	2.09	1	15	4	97	0.00	0.0	1.255	0.232	15	4	25	25
Beginning with Node Element 8203																				
8203	8200	ABC	Node		7.56Y 126.0	0.00	0.00	35.09	0	764	223	96	0.00	0.0	0.000	0.000	0	0	0	332
141	8203	ABC	098-#3/0 A		7.52Y 125.3	0.66	0.66	35.09	12	764	223	96	3.14	0.4	1.300	1.300	95	18	58	332
OCR-139	141	ABC	007- 50-H		7.52Y 125.3	0.00	0.66	20.99	42	446	160	94	0.00	0.0	1.300	0.000	0	0	0	179
139	OCR-139	ABC	098-#3/0 A		7.50Y 125.1	0.27	0.93	20.99	7	446	160	94	0.70	0.2	2.311	1.010	128	98	15	179
136	139	ABC	098-#3/0 A		7.47Y 124.5	0.57	1.50	11.88	4	262	51	98	0.88	0.3	6.422	4.111	102	19	57	129
134	136	ABC	098-#3/0 A		7.46Y 124.4	0.09	1.59	6.39	2	141	27	98	0.08	0.1	7.500	1.078	23	4	9	60
OCR-132	134	C	006- 35-H		7.46Y 124.4	0.00	1.59	0.88	3	6	1	99	0.00	0.0	7.500	0.000	0	0	0	9
132	OCR-132	C	117-#6 A-C		7.46Y 124.4	0.05	1.64	0.88	1	6	1	99	0.00	0.0	9.813	2.313	6	1	9	9
OCR-131	134	A	006- 35-H		7.46Y 124.4	0.00	1.59	15.22	43	112	21	98	0.00	0.0	7.500	0.000	0	0	0	42
131	OCR-131	A	117-#6 A-C		7.40Y 123.3	1.07	2.66	15.22	11	112	21	98	0.70	0.6	9.821	2.321	71	13	31	42
4925	131	A	117-#6 A-C		7.40Y 123.3	0.01	2.67	2.07	1	15	3	98	0.00	0.0	10.020	0.200	15	3	4	4
OCR-153	131	A	049-100-63		7.40Y 123.3	0.00	2.66	3.35	3	24	5	98	0.00	0.0	9.821	0.000	0	0	0	7
153	OCR-153	A	117-#6 A-C		7.39Y 123.2	0.16	2.82	3.35	2	24	5	98	0.02	0.1	11.994	2.173	24	5	7	7
FUSE-764	136	B	083-30N FU		7.47Y 124.5	0.00	1.50	2.52	4	18	3	99	0.00	0.0	6.422	0.000	0	0	0	12
764	FUSE-764	B	106-#2 ACS		7.47Y 124.5	0.03	1.53	2.52	1	18	3	99	0.00	0.0	7.219	0.797	18	3	12	12
4023	139	A	118-#8 A-C		7.50Y 125.0	0.06	0.99	7.33	7	54	10	98	0.02	0.0	2.435	0.125	8	1	4	35
OCR-138	4023	A	006- 35-H		7.50Y 125.0	0.00	0.99	6.27	18	46	9	98	0.00	0.0	2.435	0.000	0	0	0	31
138	OCR-138	A	106-#2 ACS		7.48Y 124.7	0.26	1.25	6.27	3	46	9	98	0.06	0.1	5.124	2.688	46	9	31	31
4906	141	ABC	098-#3/0 A		7.52Y 125.3	0.02	0.68	8.18	3	181	34	98	0.03	0.0	1.488	0.188	12	2	4	80
OCR-4907	4906	ABC	010- 50-L		7.52Y 125.3	0.00	0.68	7.65	15	170	32	98	0.00	0.0	1.488	0.000	0	0	0	76
4907	OCR-4907	ABC	098-#3/0 A		7.52Y 125.3	0.06	0.74	7.65	3	170	32	98	0.06	0.0	2.135	0.647	47	9	15	76
4908	4907	ABC	098-#3/0 A		7.52Y 125.3	0.01	0.75	5.54	2	123	23	98	0.01	0.0	2.214	0.079	0	0	0	61
4909	4908	ABC	098-#3/0 A		7.51Y 125.2	0.00	0.75	5.54	2	123	23	98	0.00	0.0	2.272	0.058	3	1	1	61
4910	4909	ABC	098-#3/0 A		7.51Y 125.2	0.07	0.83	5.41	2	120	23	98	0.05	0.0	3.523	1.252	56	11	32	60
OCR-4915	4910	A	049-100-63		7.51Y 125.2	0.00	0.83	2.42	2	18	3	99	0.00	0.0	3.523	0.000	0	0	0	12
4915	OCR-4915	A	117-#6 A-C		7.51Y 125.1	0.08	0.91	2.42	2	18	3	99	0.01	0.0	4.974	1.451	18	3	12	12
4911	4910	ABC	098-#3/0 A		7.51Y 125.2	0.00	0.83	2.08	1	46	9	98	0.00	0.0	3.677	0.154	0	0	0	16
4912	4911	ABC	098-#3/0 A		7.51Y 125.2	0.01	0.84	2.08	1	46	9	98	0.00	0.0	4.020	0.342	25	5	3	16
4913	4912	ABC	098-#3/0 A		7.51Y 125.2	0.00	0.85	0.94	0	21	4	98	0.00	0.0	4.441	0.421	6	1	3	13
4914	4913	ABC	098-#3/0 A		7.51Y 125.2	0.00	0.85	0.68	0	15	3	98	0.00	0.0	4.718	0.277	0	0	0	10
OCR-4916	4914	C	049-100-63		7.51Y 125.2	0.00	0.85	2.05	2	15	3	98	0.00	0.0	4.718	0.000	0	0	0	10
4916	OCR-4916	C	118-#8 A-C		7.51Y 125.1	0.04	0.89	2.05	2	15	3	98	0.00	0.0	5.047	0.329	2	0	1	10
OCR-4917	4916	C	049-100-63		7.51Y 125.1	0.00	0.89	1.75	2	13	2	99	0.00	0.0	5.047	0.000	0	0	0	9
4917	OCR-4917	C	118-#8 A-C		7.50Y 125.0	0.09	0.98	1.75	2	13	2	99	0.01	0.0	6.633	1.587	13	2	9	9
OCR-763	141	C	049-100-63		7.52Y 125.3	0.00	0.66	5.20	5	38	7	98	0.00	0.0	1.300	0.000	0	0	0	15
763	OCR-763																			

Balanced Voltage Drop Report
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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	Element				
																Length (mi)	KW	KVAR	Cons On	Cons Thru
8201	8200	ABC	Node	7.56Y	126.0	0.00	0.00	60.48	0	1344	275	98	0.00	0.0	0.000	0.000	0	0	0	102
533	8201	ABC	098-#3/0 A	7.45Y	124.1	1.91	1.91	60.48	20	1344	275	98	15.42	1.1	2.607	2.607	436	83	28	102
147	533	ABC	102-#1/0 A	7.40Y	123.3	0.80	2.71	40.70	18	892	175	98	4.62	0.5	3.902	1.295	213	41	20	74
146	147	ABC	102-#1/0 A	7.39Y	123.2	0.06	2.77	8.00	3	174	33	98	0.05	0.0	4.763	0.861	174	33	13	13
997	147	ABC	102-#1/0 A	7.38Y	123.0	0.28	2.98	22.94	10	500	97	98	0.83	0.2	4.793	0.891	217	41	17	41
FUSE-145	997	C	083-30N FU	7.38Y	123.0	0.00	2.98	38.87	65	282	55	98	0.00	0.0	4.793	0.000	0	0	0	24
145	FUSE-145	C	117-#6 A-C	7.26Y	121.1	1.95	4.93	38.87	28	282	55	98	2.78	1.0	7.641	2.248	279	53	24	24

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total			
KW	4169	0	0	0	0	0	39	0.00	4207	Lowest Voltage = 121.07 on Element 145		
KVAR	1174	0	0	0	0	0	40		1214	Max Accm VoltD = 4.93 on Element 145		
										Max Elem VoltD = 1.95 on Element 145		

98 07 128