

Balanced Voltage Drop Report
Source: 8700

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

		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
8700	Feeder NO.	4	ABC SRC-8700-D	7.56Y	126.0	0.00	0.00	208.17	0	4507	1405	95	0.00	0.0	0.000	0.000	0	0	0	983
NODE feeder 4	8700	ABC	Mode	7.56Y	126.0	0.00	0.00	38.53	0	865	124	99	0.00	0.0	0.000	0.000	0	0	0	124
8704	8704	ABC	098-#3/0 A	7.55Y	125.8	0.15	0.15	38.53	13	865	124	99	0.92	0.1	0.286	0.286	0	0	0	124
490	8704	ABC	098-#3/0 A	7.54Y	125.7	0.16	0.31	38.53	13	864	123	99	0.65	0.1	0.889	0.603	863	122	124	124
P 4046	490	ABC	118-#8 A-C	7.54Y	125.7	0.00	0.31	0.00	0	0	0	0	0.00	0.0	0.902	0.013	0	0	0	0 P
8703	8700	ABC	Mode	7.56Y	126.0	0.00	0.00	39.76	0	865	253	96	0.00	0.0	0.000	0.000	0	0	0	102
625	8703	ABC	098-#3/0 A	7.53Y	125.5	0.49	0.49	39.76	13	865	253	96	2.36	0.3	0.997	0.997	360	83	4	102
861	625	ABC	098-#3/0 A	7.53Y	125.5	0.01	0.50	18.71	6	396	147	94	0.03	0.0	1.031	0.034	0	0	0	74
862	861	ABC	098-#3/0 A	7.53Y	125.5	0.04	0.54	18.71	6	396	147	94	0.09	0.0	1.154	0.123	0	0	2	74
751	862	ABC	110-#4 ACS	7.50Y	125.1	0.39	0.93	18.70	13	396	147	94	0.83	0.2	3.132	1.978	0	0	0	72
162	751	ABC	110-#4 ACS	7.49Y	124.9	0.20	1.12	16.16	12	304	199	84	0.21	0.1	5.099	1.968	304	199	12	11
OCR-160	751	ABC	011- 70-L	7.50Y	125.1	0.00	0.93	4.68	7	91	-54	-86	0.00	0.0	3.132	0.000	0	0	0	61
160	OCR-160	ABC	102-#1/0 A	7.50Y	125.0	0.04	0.96	4.68	2	91	-54	-86	0.06	0.1	5.391	2.259	66	-39	44	61
RECLOSER-161	160	B	098-25H OC	7.50Y	125.0	0.00	0.96	3.86	15	25	-15	-86	0.00	0.0	5.391	0.000	0	0	0	17
161	RECLOSER-161	B	118-#8 A-C	7.49Y	124.9	0.18	1.14	3.86	4	25	-15	-86	0.04	0.2	7.670	2.279	25	-15	17	17
719	719	ABC	117-#6 A-C	7.53Y	125.5	0.06	0.54	4.83	3	107	21	98	0.03	0.0	1.591	0.594	107	21	24	24
8702	8700	ABC	Mode	7.56Y	126.0	0.00	0.00	68.06	0	1388	675	90	0.00	0.0	0.000	0.000	0	0	0	210
158	8702	ABC	098-#3/0 A	7.40Y	123.3	2.69	2.69	68.06	23	1388	675	90	23.10	1.7	2.441	2.441	119	19	35	210
4013	158	ABC	098-#3/0 A	7.39Y	123.2	0.11	2.79	32.57	11	637	342	88	0.34	0.1	2.727	0.286	352	295	5	126
OCR-157	4013	ABC	011- 70-L	7.39Y	123.2	0.00	2.79	13.01	19	285	46	99	0.00	0.0	2.727	0.000	0	0	0	121
157	OCR-157	ABC	098-#3/0 A	7.37Y	122.9	0.32	3.11	13.01	4	285	46	99	0.62	0.2	4.559	1.833	28	4	16	121
156	157	ABC	098-#3/0 A	7.37Y	122.8	0.12	3.24	6.29	2	137	22	99	0.10	0.1	6.313	1.754	55	9	21	47
1156	156	ABC	098-#3/0 A	7.36Y	122.7	0.02	3.25	3.78	1	83	13	99	0.01	0.0	6.658	0.345	19	3	6	26
1157	1156	ABC	098-#3/0 A	7.36Y	122.7	0.01	3.26	2.93	1	64	10	99	0.00	0.0	6.950	0.291	11	2	4	20
1158	1157	ABC	098-#3/0 A	7.36Y	122.7	0.03	3.30	2.42	1	53	8	99	0.01	0.0	7.977	1.027	5	1	4	16
OCR-1159	1158	A	049-100-63	7.36Y	122.7	0.00	3.30	6.54	7	48	8	99	0.00	0.0	7.977	0.000	0	0	0	12
1159	OCR-1159	A	118-#8 A-C	7.36Y	122.7	0.01	3.31	6.54	7	48	8	99	0.01	0.0	8.012	0.035	1	0	1	12
1160	1159	A	117-#6 A-C	7.36Y	122.6	0.04	3.35	6.43	5	47	7	99	0.01	0.0	8.162	0.150	1	0	1	11
OCR-1161	1160	A	049-100-63	7.36Y	122.6	0.00	3.35	6.29	6	46	7	99	0.00	0.0	8.162	0.000	0	0	0	10
1161	OCR-1161	A	117-#6 A-C	7.35Y	122.6	0.10	3.45	6.29	4	46	7	99	0.03	0.1	8.591	0.430	18	3	3	10
1162	1161	A	117-#6 A-C	7.35Y	122.5	0.06	3.51	3.83	3	28	4	99	0.01	0.0	9.055	0.464	16	3	3	7
1163	1162	A	118-#8 A-C	7.35Y	122.5	0.02	3.52	1.67	2	12	2	99	0.00	0.0	9.215	0.160	0	0	1	4
1164	1163	A	110-#4 ACS	7.35Y	122.5	0.01	3.53	1.67	1	12	2	99	0.00	0.0	9.463	0.248	0	0	0	3
1165	1164	A	110-#4 ACS	7.35Y	122.5	0.00	3.53	1.67	1	12	2	99	0.00	0.0	9.670	0.207	12	2	3	3
OCR-155	157	C	060-35-4H	7.37Y	122.9	0.00	3.11	8.85	25	64	10	99	0.00	0.0	4.559	0.000	0	0	0	28
155	OCR-155	C	118-#8 A-C	7.32Y	122.0	0.93	4.04	8.85	9	64	10	99	0.39	0.6	6.697	2.138	32	5	15	28
212	155	C	118-#8 A-C	7.31Y	121.8	0.15	4.20	4.47	4	32	5	99	0.03	0.1	7.748	1.051	32	5	13	13
FUSE-154	157	B	083-30N FU	7.37Y	122.9	0.00	3.11	7.44	12	54	9	99	0.00	0.0	4.559	0.000	0	0	0	30
154	FUSE-154	B	118-#8 A-C	7.33Y	122.0	0.68	3.80	7.44	7	54	9	99	0.19	0.4	7.372	2.812	54	9	30	30
4012	158	A	106-#2 ACS	7.39Y	123.2	0.15	2.84	7.85	4	57	9	99	0.04	0.1	3.701	1.259	57	9	18	18
901	158	ABC	106-#2 ACS	7.39Y	123.1	0.18	2.87	27.85	15	552	279	89	0.52	0.1	2.880	0.439	512	273	16	31
902	901	B	106-#2 ACS	7.38Y	123.0	0.09	2.96	5.38	3	39	6	99	0.02	0.0	4.015	1.134	39	6	15	15
8701	8700	ABC	Mode	7.56Y	126.0	0.00	0.00	63.18	0	1389	353	97	0.00	0.0	0.000	0.000	0	0	0	547
502	8701	ABC	090-336 AC	7.53Y	125.5	0.47	0.47	63.18	12	1389	353	97	3.38	0.2	1.059	1.059	77	7	43	547
P 4073	502	ABC	090-336 AC	7.53Y	125.5	0.00	0.47	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	125.5	0.05	0.51	59.81	11	1309	338	97	0.32	0.0	1.168	0.109	0	0	0	504
711	889	ABC	098-#3/0 A	7.48Y	124.7	0.76	1.27	59.81	20	1308	337	97	6.19	0.5	2.124	0.956	222	162	26	504
214	711	ABC	098-#3/0 A	7.46Y	124.4	0.36	1.63	48.68	16	1080	167	99	2.71	0.3	2.668	0.544	30	26	3	478
OCR-213	214	C	005- 25-H	7.46Y	124.4	0.00	1.63	1.91	8	14	1	100	0.00	0.0	2.668	0.000	0	0	0	7
213	OCR-213	C	106-#2 ACS	7.46Y	124.3	0.07	1.70	1.91	1	14	1	100	0.01	0.0	5.281	2.614	14	1	7	7
211	214	ABC	098-#3/0 A	7.40Y	123.4	1.01	2.63	46.56	16	1033	137	99	7.25	0.7	4.299	1.631	69	7	25	468
4028	211	C	117-#6 A-C	7.39Y	123.2	0.13	2.77	4.20	3	31	3	100	0.02	0.1	5.774	1.475	31	3	19	19
4004	211	ABC	098-#3/0 A	7.39Y	123.1	0.28	2.91	42.05	14	926	119	99	1.81	0.2	4.790	0.491	40	4	10	424
4005	4004	ABC	Regulator	7.56Y	126.0	-2.91	0.00	40.23	18	804	113	99	0.00	0.0	4.790	0.000	0	0	0	414
209	4005	ABC	098-#3/0 A	7.53Y	125.6	0.43	0.43	39.31	13	804	113	99	2.62	0.3	5.609	0.820	50	5	19	414
OCR-208	209	ABC	012-100-L	7.53Y	125.6	0.00	0.43	17.08	17	384	39	99	0.00	0.0	5.609	0.000	0	0	0	183
208	OCR-208	ABC	106-#2 ACS	7.49Y	124.8	0.81	1.24	17.08	9	384	39	99	2.17	0.6	7.799	2.190	94	9	27	183
OCR-207	208	B	007- 50-H	7.49Y	124.8	0.00	1.24	5.46	11	41	4	100	0.00	0.0	7.799	0.000	0	0	0	22
207	OCR-207	B	106-#2 ACS	7.48Y	124.6															

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Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Units Displayed In Volts				% KVAR	kW PF	% Loss	mi From Src	Length (mi)	Element				
							-Base Voltage:120.0-	Accum Drop	Thru Amps	% Thru						Cons KW	Cons KVAR	On	Thru	
79	80	C	117-#6 A-C	7.47Y	124.5	0.09	1.50	4.92	4	37	4	99	0.02	0.1	12.530	0.456	6	1	3	12
4802	79	C	106-#2 ACS	7.47Y	124.4	0.06	1.56	4.12	2	31	3	100	0.01	0.0	13.060	0.530	0	0	0	9
4803	4802	C	106-#2 ACS	7.47Y	124.4	0.02	1.58	4.12	2	31	3	100	0.00	0.0	13.248	0.188	18	2	2	9
4804	4803	C	106-#2 ACS	7.46Y	124.4	0.03	1.60	1.76	1	13	1	100	0.00	0.0	14.280	1.032	13	1	7	7
78	80	ABC	098-#3/0 A	7.47Y	124.6	0.02	1.43	2.03	1	38	25	84	0.00	0.0	13.005	0.931	35	25	7	8
76	78	ABC	098-#3/0 A	7.47Y	124.6	0.00	1.43	0.12	0	3	0	100	0.00	0.0	15.024	2.019	3	0	1	1
OCR-86	83	ABC	006- 35-H	7.50Y	125.0	0.00	0.99	4.59	13	103	10	100	0.00	0.0	8.208	0.000	0	0	0	59
86	OCR-86	ABC	106-#2 ACS	7.49Y	124.9	0.11	1.09	4.59	3	103	10	100	0.08	0.1	9.222	1.015	13	1	10	59
FUSE-85	86	C	083-30N FU	7.49Y	124.9	0.00	1.09	7.44	12	55	5	100	0.00	0.0	9.222	0.000	0	0	0	31
85	FUSE-85	C	118-#8 A-C	7.46Y	124.3	0.61	1.70	7.44	7	55	5	100	0.17	0.3	11.760	2.538	55	5	31	31
FUSE-84	86	B	083-30N FU	7.49Y	124.9	0.00	1.09	4.53	8	34	3	100	0.00	0.0	9.222	0.000	0	0	0	18
84	FUSE-84	B	118-#8 A-C	7.48Y	124.7	0.22	1.31	4.53	5	34	3	100	0.04	0.1	10.730	1.508	34	3	18	18
OCR-210	209	A	005- 25-H	7.53Y	125.6	0.00	0.43	11.47	46	86	8	100	0.00	0.0	5.609	0.000	0	0	0	50
210	OCR-210	A	106-#2 ACS	7.51Y	125.1	0.48	0.91	11.47	6	86	8	100	0.21	0.2	8.475	2.866	86	8	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	4447	0	0	0	0	0	60	0.00	4507	Lowest Voltage = 121.80 on Element 212
KVAR	1335	0	0	0	0	0	70		1405	Max Accm VoltD = 4.20 on Element 212
										Max Elem VoltD = 2.69 on Element 158

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HARDINSBURG + WINTER AWC

Balanced Voltage Drop Report
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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	Thru	
8600		ABC	SRC-8600-D	7.56Y	126.0	0.00	0.00	279.09	0	6068	1801	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	87.55	0	1866	679	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	87.55	29	1866	679	94	0.21	0.0	0.013	0.013	0	0	0	469		
506	4111	ABC	090-336 AC	7.53Y	125.4	0.55	0.56	87.55	17	1866	679	94	4.68	0.3	0.871	0.859	336	130	100	469		
P 4119	506	ABC	098-#3/0 A	7.53Y	125.4	0.00	0.56	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	7.52Y	125.4	0.06	0.62	9.99	6	75	5	100	0.02	0.0	1.151	0.280	46	3	28	45		
4011	4010	A	118-#8 A-C	7.52Y	125.4	0.02	0.64	3.81	4	29	2	100	0.00	0.0	1.295	0.144	29	2	17	17		
888	506	ABC	098-#3/0 A	7.53Y	125.4	0.00	0.56	0.31	0	7	0	100	0.00	0.0	0.975	0.103	7	0	8	8		
FUSE-606	506	ABC	083-30W FU	7.53Y	125.4	0.00	0.56	24.46	41	529	158	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	0.16	0.73	24.46	8	529	158	96	0.40	0.1	1.659	0.788	461	153	162	196		
OCR-765	606	B	010-50-L	7.52Y	125.3	0.00	0.73	8.99	18	67	5	100	0.00	0.0	1.659	0.000	0	0	0	34		
765	OCR-765	B	118-#8 A-C	7.47Y	124.4	0.83	1.55	8.99	9	67	5	100	0.29	0.4	4.546	2.887	67	5	34	34		
605	506	ABC	090-336 AC	7.52Y	125.3	0.16	0.72	43.75	8	914	374	93	0.57	0.1	1.488	0.617	509	229	63	120		
FUSE-830	605	ABC	083-30W FU	7.52Y	125.3	0.00	0.72	8.45	14	179	65	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	0.72	8.45	6	179	65	94	0.00	0.0	1.537	0.049	179	65	2	2		
FUSE-725	605	ABC	083-30W FU	7.52Y	125.3	0.00	0.72	10.61	18	226	80	94	0.00	0.0	1.488	0.000	0	0	0	55		
725	FUSE-725	ABC	090-336 AC	7.51Y	125.2	0.04	0.76	10.61	2	226	80	94	0.03	0.0	2.490	1.002	226	80	55	55		
----- Feeder NO. 7		Beginning with Node Element 8607																				
8607	8600	ABC	Node	7.56Y	126.0	0.00	0.00	7.38	0	166	24	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	7.38	2	166	24	99	0.02	0.0	0.137	0.137	0	0	0	49		
489	785	ABC	090-336 AC	7.56Y	126.0	0.01	0.03	7.38	1	166	24	99	0.01	0.0	0.777	0.640	166	24	49	49		
----- Feeder NO. 6		Beginning with Node Element 8606																				
8606	8600	ABC	Node	7.56Y	126.0	0.00	0.00	28.10	0	631	90	99	0.00	0.0	0.000	0.000	0	0	0	124		
202	8606	ABC	098-#3/0 A	7.55Y	125.8	0.16	0.16	28.10	9	631	90	99	0.46	0.1	0.803	0.803	630	89	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	66.26	0	1457	367	97	0.00	0.0	0.000	0.000	0	0	0	366		
714	8604	ABC	098-#3/0 A	7.54Y	125.7	0.27	0.27	66.26	22	1457	367	97	2.56	0.2	0.289	0.289	105	62	4	366		
C OCR-164	714	ABC	003-10-H O	7.54Y	125.7	0.00	0.27	53.53	535	1182	266	98	0.00	0.0	0.289	0.000	0	0	0	314	C	
164	OCR-164	ABC	116-4-ACWC	7.50Y	124.9	0.79	1.06	53.53	30	1182	266	98	6.90	0.6	0.866	0.578	7	1	1	314		
P 163	164	ABC	098-#3/0 A	7.50Y	124.9	0.00	1.06	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	124.9	0.00	1.06	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	7.48Y	124.7	0.21	1.28	15.61	11	114	24	98	0.17	0.1	1.194	0.327	19	4	3	32		
OCR-159	721	C	010-50-L	7.48Y	124.7	0.00	1.28	13.05	26	95	20	98	0.00	0.0	1.194	0.000	0	0	0	29		
159	OCR-159	C	110-#4 ACS	7.48Y	124.6	0.09	1.37	13.05	9	95	20	98	0.03	0.0	2.110	0.917	95	20	29	29		
OCR-179	164	ABC	038-70-E	7.50Y	124.9	0.00	1.06	48.01	69	1054	236	98	0.00	0.0	0.866	0.000	0	0	0	281		
179	OCR-179	ABC	098-#3/0 A	7.42Y	123.7	1.20	2.27	48.01	16	1054	236	98	7.72	0.7	2.854	1.988	298	63	77	281		
OCR-178	179	C	060-35-4H	7.42Y	123.7	0.00	2.27	6.35	18	46	10	98	0.00	0.0	2.854	0.000	0	0	0	16		
178	OCR-178	C	118-#8 A-C	7.39Y	123.2	0.54	2.80	6.35	6	46	10	98	0.13	0.3	5.411	2.557	46	10	16	16		
995	179	ABC	098-#3/0 A	7.42Y	123.6	0.10	2.37	29.32	10	638	141	98	0.44	0.1	3.089	0.235	0	0	0	168		
OCR-177	995	ABC	011-70-L	7.42Y	123.6	0.00	2.37	29.32	42	637	140	98	0.00	0.0	3.089	0.000	0	0	0	168		
177	OCR-177	ABC	098-#3/0 A	7.37Y	122.8	0.87	3.23	29.32	10	637	140	98	3.46	0.5	5.369	2.280	148	32	35	168		
OCR-994	177	A	006-35-H	7.37Y	122.8	0.00	3.23	21.15	60	152	33	98	0.00	0.0	5.369	0.000	0	0	0	37		
994	OCR-994	A	118-#8 A-C	7.30Y	121.7	1.04	4.28	21.15	21	152	33	98	1.14	0.7	6.215	0.846	37	8	5	37		
992	994	A	118-#8 A-C	7.27Y	121.1	0.62	4.90	16.04	16	115	25	98	0.53	0.5	6.854	0.639	19	4	3	32		
FUSE-187	992	A	082-25N FU	7.27Y	121.1	0.00	4.90	13.35	27	95	20	98	0.00	0.0	6.854	0.000	0	0	0	29		
187	FUSE-187	A	118-#8 A-C	7.21Y	120.1	0.99	5.88	13.35	13	95	20	98	0.49	0.5	9.086	2.232	94	20	29	29		
993	177	ABC	098-#3/0 A	7.36Y	122.7	0.07	3.30	15.42	5	333	72	98	0.15	0.0	5.696	0.328	44	9	4	96		
OCR-176	993	C	006-35-H	7.36Y	122.7	0.00	3.30	9.99	29	72	15	98	0.00	0.0	5.696	0.000	0	0	0	31		
176	OCR-176	C	110-#4 ACS	7.35Y	122.5	0.18	3.49	9.99	7	72	15	98	0.05	0.1	8.113	2.416	72	15	31	31		
OCR-175	993	B	047-70-63	7.36Y	122.7	0.00	3.30	30.23	43	217	47	98	0.00	0.0	5.696	0.000	0	0	0	61		
175	OCR-175	B	106-#2 ACS	7.28Y	121.3	1.39	4.70	30.23	17	217	47	98	1.70	0.8	7.894	2.198	145	31	41	61		
OCR-174	175	B	047-70-63	7.28Y	121.3	0.00	4.70	4.61	7	33	7	98	0.00	0.0	7.894	0.000	0	0	0	13		
174	OCR-174	B	106-#2 ACS	7.27Y	121.2	0.08	4.78	4.61	3	33	7	98	0.01	0.0	9.019	1.125	33	7	13	13		
173	175	B	118-#8 A-C	7.26Y	121.0	0.26	4.96	5.30	5	38	8	98	0.05	0.1	9.375	1.480	38	8	7	7		
OCR-749	179	A	006-35-H	7.42Y	123.7	0.00	2.27	8.85	25	64	14	98	0.00	0.0	2.854	0.000	0	0	0	20		
749	OCR-749	A	118-#8 A-C	7.39Y	123.2	0.52																

Balanced Voltage Drop Report
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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Caf	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	125.4	0.11	0.57	21.27	12	476	65	99	0.39	0.1	1.565	0.230	55	7	23	216
171	4020	ABC	116-4-ACWC	7.47Y	124.5	0.91	1.48	18.82	10	421	58	99	2.69	0.6	3.729	2.164	85	11	50	193
170	171	ABC	098-#3/0 A	7.46Y	124.4	0.14	1.62	13.46	4	299	40	99	0.28	0.1	4.535	0.807	43	6	15	126
OCR-168	170	ABC	006- 35-H	7.46Y	124.4	0.00	1.62	9.75	28	216	29	99	0.00	0.0	4.535	0.000	0	0	0	100
168	OCR-168	ABC	098-#3/0 A	7.45Y	124.2	0.22	1.84	9.75	3	216	29	99	0.29	0.1	6.655	2.120	97	13	41	100
4008	168	A	118-#8 A-C	7.44Y	124.0	0.20	2.05	5.47	5	40	5	99	0.04	0.1	7.807	1.152	40	5	17	17
SECTZR-601	168	B	099-SECTIO	7.45Y	124.2	0.00	1.84	3.39	14	25	3	99	0.00	0.0	6.655	0.000	0	0	0	19
601	SECTZR-601	B	117-#6 A-C	7.45Y	124.1	0.07	1.92	3.39	2	25	3	99	0.01	0.0	7.630	0.975	25	3	19	19
OCR-600	168	C	047-70-63.	7.45Y	124.2	0.00	1.84	7.24	10	53	7	99	0.00	0.0	6.655	0.000	0	0	0	23
600	OCR-600	C	117-#6 A-C	7.43Y	123.8	0.31	2.16	7.24	5	53	7	99	0.09	0.2	8.645	1.990	53	7	23	23
167	170	ABC	098-#3/0 A	7.46Y	124.4	0.01	1.63	1.76	1	39	5	99	0.00	0.0	5.290	0.755	39	5	11	11
169	171	B	118-#8 A-C	7.45Y	124.2	0.27	1.76	4.64	5	34	5	99	0.05	0.1	5.547	1.819	34	5	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	6027	0	0	0	0	0	41		0.00	6068	Lowest Voltage =	120.12	on Element 187
KVAR	1757	0	0	0	0	0	44			1801	Max Accm VoltD =	5.88	on Element 187
											Max Elem VoltD =	1.39	on Element 175

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HARNED WINTER 2005

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
8140	Feeder NO. 2	ABC	SRC-8140-D	7.56Y	126.0	0.00	0.00	222.80	0	4906	1212	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	126.84	0	2813	600	98	0.00	0.0	0.000	0.000	0	0	0	602
1150	8142	ABC	#3/0 ACSR	7.56Y	125.9	0.07	0.07	126.84	42	2813	600	98	1.59	0.1	0.059	0.059	0	0	0	602
P 786	1150	ABC	098-#3/0 A	7.56Y	125.9	0.00	0.07	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	7.41Y	123.5	2.42	2.49	126.84	42	2812	600	98	43.08	1.5	1.564	1.505	557	282	6	602
745	190	ABC	098-#3/0 A	7.35Y	122.4	1.06	3.55	100.22	33	2212	269	99	17.08	0.8	2.348	0.784	0	0	0	596
OCR-216	745	B	006-35-R	7.35Y	122.4	0.00	3.55	25.18	72	184	20	99	0.00	0.0	2.348	0.000	0	0	0	83
216	OCR-216	B	106-#2 ACS	7.27Y	121.1	1.31	4.86	25.18	14	184	20	99	1.45	0.8	4.882	2.534	113	12	53	83
FUSE-215	216	B	083-30W FU	7.27Y	121.1	0.00	4.86	7.04	12	51	5	100	0.00	0.0	4.882	0.000	0	0	0	23
215	FUSE-215	B	106-#2 ACS	7.25Y	120.9	0.26	5.12	7.04	4	51	5	100	0.07	0.1	7.371	2.489	51	5	23	23
4107	216	B	110-#4 ACS	7.27Y	121.1	0.00	4.86	2.63	2	19	2	99	0.00	0.0	5.137	0.255	19	2	7	7
196	745	ABC	098-#3/0 A	7.28Y	121.3	1.14	4.70	91.83	31	2011	229	99	16.92	0.8	3.273	0.925	0	0	0	513
4030	196	ABC	098-#3/0 A	7.27Y	121.1	0.21	4.90	66.29	22	1440	141	100	2.23	0.2	3.510	0.237	16	10	3	317
4087	4030	ABC	Regulator	7.56Y	126.0	-4.90	0.00	65.51	30	1422	128	100	0.00	0.0	3.510	0.000	0	0	0	314
535	4087	ABC	098-#3/0 A	7.45Y	124.2	1.83	1.83	62.96	21	1422	128	100	18.38	1.3	5.869	2.359	160	23	52	314
OCR-188	535	C	007-50-H	7.45Y	124.2	0.00	1.83	5.92	12	44	5	99	0.00	0.0	5.869	0.000	0	0	0	26
188	OCR-188	C	118-#8 A-C	7.43Y	123.9	0.29	2.13	5.92	6	44	5	99	0.07	0.2	7.414	1.545	44	4	26	26
OCR-185	535	B	049-100-63	7.45Y	124.2	0.00	1.83	4.87	5	36	4	99	0.00	0.0	5.869	0.000	0	0	0	6
185	OCR-185	B	117-#6 A-C	7.44Y	124.1	0.09	1.92	4.87	3	36	4	99	0.02	0.0	6.736	0.867	36	4	6	6
182	535	ABC	098-#3/0 A	7.42Y	123.6	0.54	2.37	52.20	17	1164	76	100	4.57	0.4	6.726	0.857	131	35	32	230
P 4839	182	ABC	Capacitor	7.42Y	123.6	0.00	2.37	16.71	0	227	-295	-61	0.00	0.0	6.726	0.000	0	0	0	73
4836	4839	ABC	098-#3/0 A	7.41Y	123.5	0.14	2.51	10.25	3	227	24	99	0.20	0.1	8.037	1.311	97	10	33	73
4818	4836	C	118-#8 A-C	7.40Y	123.4	0.07	2.59	17.62	18	130	14	99	0.07	0.1	8.105	0.068	11	1	3	40
OCR-4819	4818	C	061-50-AH	7.40Y	123.4	0.00	2.59	16.19	32	119	13	99	0.00	0.0	8.105	0.000	0	0	0	37
4819	OCR-4819	C	117-#6 A-C	7.37Y	122.9	0.53	3.12	16.19	12	119	13	99	0.45	0.4	8.961	0.856	27	3	7	37
4820	4819	C	106-#2 ACS	7.36Y	122.7	0.15	3.27	12.56	7	92	10	99	0.11	0.1	9.366	0.406	0	0	0	30
183	4820	C	117-#6 A-C	7.35Y	122.5	0.20	3.47	12.56	9	92	9	100	0.10	0.1	10.120	0.754	92	9	30	30
4815	182	ABC	106-#2 ACS	7.41Y	123.5	0.08	2.45	29.70	17	585	307	89	0.27	0.0	6.902	0.176	479	296	8	53
4816	4815	B	106-#2 ACS	7.41Y	123.5	0.01	2.46	14.37	8	106	11	99	0.01	0.0	6.932	0.030	0	0	0	45
OCR-4817	4816	B	061-50-AH	7.41Y	123.5	0.00	2.46	14.37	29	106	11	99	0.00	0.0	6.932	0.000	0	0	0	45
4817	OCR-4817	B	106-#2 ACS	7.40Y	123.4	0.12	2.59	14.37	8	106	11	99	0.09	0.1	7.295	0.364	41	4	14	45
OCR-184	4817	B	051-140-63	7.40Y	123.4	0.00	2.59	8.75	6	64	7	99	0.09	0.0	7.295	0.000	0	0	0	31
184	OCR-184	B	110-#4 ACS	7.40Y	123.3	0.10	2.69	8.75	6	64	7	99	0.03	0.0	8.995	1.699	64	7	31	31
1180	182	A	106-#2 ACS	7.33Y	122.1	1.50	3.87	29.38	16	217	24	99	2.08	1.0	8.916	2.190	93	10	32	72
1181	1180	A	106-#2 ACS	7.31Y	121.8	0.37	4.24	16.64	9	121	13	99	0.33	0.3	9.724	0.800	17	2	7	40
1182	1181	A	106-#2 ACS	7.28Y	121.3	0.51	4.75	14.34	8	104	11	99	0.37	0.4	11.058	1.334	22	2	5	33
1183	1182	A	106-#2 ACS	7.27Y	121.2	0.02	4.77	11.31	6	82	8	100	0.01	0.0	11.124	0.066	10	1	8	28
1184	1183	A	106-#2 ACS	7.27Y	121.1	0.12	4.89	9.90	5	72	7	100	0.06	0.1	11.606	0.482	18	2	4	20
1185	1184	A	106-#2 ACS	7.26Y	121.0	0.11	5.00	7.42	4	54	6	99	0.04	0.1	12.219	0.613	22	2	9	16
1186	1185	A	106-#2 ACS	7.26Y	121.0	0.03	5.02	4.34	2	31	3	100	0.00	0.0	12.658	0.439	31	3	7	7
OCR-746	196	ABC	007-50-H	7.28Y	121.3	0.00	4.70	25.55	51	553	70	99	0.00	0.0	3.273	0.000	0	0	0	196
746	OCR-746	ABC	098-#3/0 A	7.27Y	121.2	0.08	4.77	25.55	9	553	70	99	0.31	0.1	3.516	0.243	59	16	15	196
4081	746	ABC	098-#3/0 A	7.27Y	121.2	0.05	4.82	22.80	8	495	54	99	0.18	0.0	3.677	0.162	3	0	1	182
4082	4081	ABC	Regulator	7.56Y	126.0	-4.82	0.00	22.66	7	491	53	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	21.79	7	491	53	99	0.28	0.1	3.965	0.288	31	3	4	180
4084	4083	ABC	098-#3/0 A	7.54Y	125.6	0.33	0.41	20.42	7	460	50	99	1.01	0.2	5.344	1.379	108	11	38	176
4085	4084	ABC	098-#3/0 A	7.52Y	125.4	0.18	0.60	15.60	5	351	37	99	0.44	0.1	6.264	0.920	42	4	8	138
4088	4085	B	106-#2 ACS	7.52Y	125.4	0.05	0.64	11.73	7	88	9	99	0.03	0.0	6.406	0.141	10	1	4	38
4089	4088	B	106-#2 ACS	7.51Y	125.2	0.11	0.76	10.38	6	78	8	99	0.06	0.1	6.823	0.417	16	2	4	34
4090	4089	B	106-#2 ACS	7.49Y	124.9	0.39	1.15	8.23	5	62	6	100	0.14	0.2	9.086	2.263	36	4	22	30
4091	4090	B	106-#2 ACS	7.49Y	124.8	0.01	1.16	3.36	2	25	3	99	0.00	0.0	9.207	0.121	0	0	0	8
4092	4091	B	106-#2 ACS	7.49Y	124.8	0.04	1.20	3.36	2	25	3	99	0.01	0.0	9.803	0.595	15	2	4	8
4093	4092	B	106-#2 ACS	7.49Y	124.8	0.01	1.21	1.37	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	0.62	9.83	3	221	23	99	0.04	0.0	6.438	0.174	3	0	3	92
OCR-194	4086	A	006-35-H	7.52Y	125.4	0.00	0.62	9.30	27	70	7	100	0.00	0.0	6.438	0.000	0	0	0	27
194	OCR-194	A	118-#8 A-C	7.48Y	124.6	0.77	1.39	9.30	9	70	7	100	0.28	0.4	9.017	2.579	69	7	27	27
OCR-193	4086	C	009-35-L	7.52Y	125.4	0.00	0.62	19.81	57	148	16	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	0.43	1.04	19.81	7	148	16	99	0.37	0.3	8.073	1.634	69	7	31	

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					KVAR	PF	KW Loss	KW Loss	mi From Src	Element		Cons On	Cons Thru
							-Base Voltage:120.0-	Accum Drop	Thru Amps	% Cap	Thru KW						Length (mi)	KW		
KVAR	1389	0	-318	0	0	0	141					1212				Max Accm VoltD = 5.12	on Element 215			
																Max Elem VoltD = 2.42	on Element 190			

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Balanced Voltage Drop Report
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		Units Displayed In Volts													mi		Element		Cons	
		Base Voltage:120.0-													From		Length		On	
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
8810		ABC	SRC-8810-D	7.56Y	126.0	0.00	0.00	407.21	0	9130	1395	99	0.00	0.0	0.000	0.000	0	0	0	3042
hunt	8810	ABC	Capacitor	7.56Y	126.0	0.00	0.00	407.21	0	9130	1395	99	0.00	0.0	0.000	0.000	0	0	0	3042
Feeder NO. 3		Beginning with Node Element 8813																		
8813	hunt	ABC	Node	7.56Y	126.0	0.00	0.00	157.49	0	3387	1133	95	0.00	0.0	0.000	0.000	0	0	0	1214
792	8813	ABC	098-#3/0 A	7.45Y	124.2	1.77	1.77	157.49	52	3387	1133	95	38.44	1.1	0.725	0.725	53	24	14	1214
130	792	ABC	098-#3/0 A	7.31Y	121.9	2.35	4.13	154.94	52	3296	1066	95	49.80	1.5	1.729	1.005	178	81	58	1200
OCR-129	130	B	049-100-63	7.31Y	121.9	0.00	4.13	11.87	12	79	36	91	0.00	0.0	1.729	0.000	0	0	0	65
129	OCR-129	B	106-#2 ACS	7.28Y	121.3	0.61	4.74	11.87	7	79	36	91	0.23	0.3	4.739	3.009	79	36	65	65
128	130	ABC	098-#3/0 A	7.20Y	119.9	1.93	6.06	142.21	47	2989	893	96	38.46	1.3	2.626	0.896	72	33	16	1077
903	128	ABC	Regulator	7.56Y	126.0	-6.06	0.00	138.60	63	2878	817	96	0.00	0.0	2.626	0.000	0	0	0	1061
4110	903	ABC	098-#3/0 A	7.54Y	125.6	0.37	0.37	131.94	44	2879	817	96	6.97	0.2	2.812	0.186	22	10	4	1061
125	4110	ABC	098-#3/0 A	7.45Y	124.1	1.52	1.89	130.91	44	2850	800	96	28.07	1.0	3.585	0.774	76	35	13	1057
OCR-124	125	ABC	012-100-L	7.45Y	124.1	0.00	1.89	36.57	37	742	342	91	0.00	0.0	3.585	0.000	0	0	0	271
124	OCR-124	ABC	098-#3/0 A	7.41Y	123.5	0.61	2.50	36.57	12	742	342	91	2.65	0.4	4.751	1.166	202	94	20	271
123	124	ABC	098-#3/0 A	7.39Y	123.1	0.36	2.86	17.81	6	360	164	91	0.77	0.2	6.101	1.349	78	35	25	181
OCR-122	123	C	006-35-H	7.39Y	123.1	0.00	2.86	13.32	38	90	41	91	0.00	0.0	6.101	0.000	0	0	0	51
122	OCR-122	C	118-#8 A-C	7.35Y	122.5	0.66	3.52	13.32	13	90	41	91	0.40	0.4	7.129	1.028	50	23	30	51
OCR-657	122	C	051-140-63	7.35Y	122.5	0.00	3.52	5.84	4	39	18	91	0.00	0.0	7.129	0.000	0	0	0	21
657	OCR-657	C	117-#6 A-C	7.34Y	122.4	0.11	3.63	5.84	4	39	18	91	0.02	0.1	7.955	0.826	39	18	21	21
OCR-659	123	B	051-140-63	7.39Y	123.1	0.00	2.86	28.54	20	192	87	91	0.00	0.0	6.101	0.000	0	0	0	105
659	OCR-659	B	110-#4 ACS	7.37Y	122.9	0.24	3.10	28.54	20	192	87	91	0.16	0.1	7.003	0.902	192	87	105	105
C OCR-127	124	A	009-35-L	7.41Y	123.5	0.00	2.50	26.27	75	177	81	91	0.00	0.0	4.751	0.000	0	0	0	70 C
127	OCR-127	A	106-#2 ACS	7.33Y	122.2	1.27	3.78	26.27	15	177	81	91	1.44	0.8	6.410	1.659	53	24	13	70
OCR-631	127	A	049-100-63	7.33Y	122.2	0.00	3.78	8.35	8	56	25	91	0.00	0.0	6.410	0.000	0	0	0	35
631	OCR-631	A	117-#6 A-C	7.32Y	122.1	0.17	3.95	8.35	6	56	25	91	0.05	0.1	7.289	0.879	56	25	35	35
FUSE-563	127	A	082-25N FU	7.33Y	122.2	0.00	3.78	9.97	20	67	30	91	0.00	0.0	6.410	0.000	0	0	0	22
563	FUSE-563	A	110-#4 ACS	7.33Y	122.1	0.10	3.88	9.97	7	67	30	91	0.03	0.0	7.225	0.815	43	19	10	22
799	563	A	118-#8 A-C	7.32Y	122.1	0.05	3.93	3.54	4	24	11	91	0.01	0.0	7.664	0.440	24	11	12	12
C OCR-121	125	ABC	012-100-L	7.45Y	124.1	0.00	1.89	91.39	91	2004	391	98	0.00	0.0	3.585	0.000	0	0	0	773 C
121	OCR-121	ABC	098-#3/0 A	7.35Y	122.6	1.54	3.43	91.39	30	2004	391	98	20.30	1.0	4.873	1.287	289	132	88	773
OCR-120	121	A	007-50-H	7.35Y	122.6	0.00	3.43	23.46	47	157	72	91	0.00	0.0	4.873	0.000	0	0	0	99
120	OCR-120	A	106-#2 ACS	7.29Y	121.5	1.11	4.54	23.46	13	157	72	91	1.14	0.7	6.441	1.568	39	18	7	99
P 793	120	A	117-#6 A-C	7.29Y	121.5	0.00	4.54	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	7.24Y	120.6	0.87	5.41	17.62	10	117	53	91	0.56	0.5	8.665	2.224	83	38	31	92
FUSE-546	547	A	085-50N FU	7.24Y	120.6	0.00	5.41	5.04	5	33	15	91	0.00	0.0	8.665	0.000	0	0	0	61
546	FUSE-546	A	106-#2 ACS	7.22Y	120.4	0.18	5.59	5.04	3	33	15	91	0.03	0.1	10.748	2.084	33	15	61	61
119	121	ABC	098-#3/0 A	7.28Y	121.4	1.18	4.60	70.10	23	1538	165	99	13.10	0.9	6.201	1.328	126	57	36	586
C OCR-118	119	C	006-35-H	7.28Y	121.4	0.00	4.60	35.60	102	236	108	91	0.00	0.0	6.201	0.000	0	0	0	109 C
118	OCR-118	C	106-#2 ACS	7.25Y	120.8	0.56	5.16	35.60	20	236	108	91	0.88	0.4	6.703	0.502	46	21	13	109
4921	118	C	106-#2 ACS	7.21Y	120.2	0.60	5.76	28.59	16	189	86	91	0.80	0.4	7.348	0.645	18	8	4	96
4922	4921	C	106-#2 ACS	7.20Y	120.0	0.23	5.99	25.83	14	170	77	91	0.28	0.2	7.612	0.264	10	4	3	92
661	4922	C	106-#2 ACS	7.15Y	119.2	0.84	6.84	24.38	14	160	73	91	0.92	0.6	8.723	1.112	31	14	11	89
OCR-660	661	C	051-140-63	7.15Y	119.2	0.00	6.84	12.89	9	84	38	91	0.00	0.0	8.723	0.000	0	0	0	53
660	OCR-660	C	106-#2 ACS	7.14Y	119.1	0.11	6.95	12.89	7	84	38	91	0.05	0.1	9.118	0.395	58	26	36	53
OCR-4924	660	C	051-140-63	7.14Y	119.1	0.00	6.95	3.92	3	26	12	91	0.00	0.0	9.118	0.000	0	0	0	17
4924	OCR-4924	C	106-#2 ACS	7.14Y	119.0	0.04	6.99	3.92	2	26	12	91	0.01	0.0	9.744	0.626	26	12	17	17
OCR-4923	661	C	051-140-63	7.15Y	119.2	0.00	6.84	6.79	5	44	20	91	0.00	0.0	8.723	0.000	0	0	0	25
4923	OCR-4923	C	110-#4 ACS	7.15Y	119.1	0.04	6.87	6.79	5	44	20	91	0.01	0.0	9.325	0.602	44	20	25	25
OCR-116	119	B	007-50-H	7.28Y	121.4	0.00	4.60	29.04	58	193	88	91	0.00	0.0	6.201	0.000	0	0	0	94
116	OCR-116	B	106-#2 ACS	7.22Y	120.3	1.14	5.75	29.04	16	193	88	91	1.37	0.7	7.633	1.432	77	35	32	94
802	116	B	110-#4 ACS	7.21Y	120.1	0.13	5.88	11.42	8	75	34	91	0.03	0.0	8.811	1.178	75	34	53	53
801	116	B	106-#2 ACS	7.21Y	120.2	0.05	5.80	5.92	3	39	18	91	0.01	0.0	8.167	0.534	39	18	9	9
115	119	ABC	098-#3/0 A	7.26Y	121.0	0.43	5.04	40.58	14	875	-145	-99	4.05	0.5	7.543	1.342	164	74	47	310
113	115	ABC	098-#3/0 A	7.25Y	120.9	0.10	5.14	31.86	11	646	-252	-93	1.12	0.2	8.072	0.530	32	14	7	240
P 900	113	ABC	Capacitor	7.25Y	120.9	0.00	5.14	-25.11	0	0	-546	0	0.00	0.0	8.072	0.000	0	0	0	0 P
803	113	ABC	098-#3/0 A	7.24Y	120.6	0.27	5.41	30.97	10	613	279	91	1.07	0.2	8.620	0.548	45	20	11	233
231	803	ABC	098-#3/0 A	7.23Y	120.5	0.06	5.47	5.56	2	110	50	91	0.03	0.0	9.909	1.289	110	50	25	25
OCR-114	803	A	006-35-H	7.24Y	120.6	0.00	5.41	15.69	45	103	47	91	0.00	0.0	8.620	0.000	0	0	0	39
114	OCR-114	A	106-#2 ACS	7.19Y	119.8	0.82														

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

		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	Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
OCR-550	556	C	005-25-H	7.42Y	123.7	0.00	2.26	12.40	50	87	29	95	0.00	0.0	1.535	0.000	0	0	0	75
550	OCR-550	C	110-#4 ACS	7.42Y	123.7	0.05	2.31	12.40	9	87	29	95	0.02	0.0	2.003	0.468	87	29	75	75
P 4127	556	ABC	098-#3/0 A	7.42Y	123.7	0.00	2.26	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	122.3	1.48	3.75	92.76	31	2058	186	100	22.44	1.1	2.785	1.250	88	29	35	601
FUSE-548	4050	ABC	081-20N FU	7.34Y	122.3	0.00	3.75	10.99	27	220	100	91	0.00	0.0	2.785	0.000	0	0	0	12
548	FUSE-548	ABC	110-#4 ACS	7.33Y	122.2	0.04	3.78	10.99	8	220	100	91	0.03	0.0	3.430	0.644	220	100	12	12
FUSE-500	4050	C	081-20N FU	7.34Y	122.3	0.00	3.75	9.03	23	63	21	95	0.00	0.0	2.785	0.000	0	0	0	32
500	FUSE-500	C	110-#4 ACS	7.33Y	122.2	0.07	3.82	9.03	6	63	21	95	0.02	0.0	3.747	0.962	63	21	32	32
4051	4050	ABC	Regulator	7.56Y	126.0	-3.75	0.00	75.60	35	1664	11	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	73.36	24	1664	11	100	0.94	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	73.36	210	1663	10	100	0.00	0.0	2.866	0.000	0	0	0	522 C
549	OCR-549	ABC	098-#3/0 A	7.52Y	125.4	0.53	0.60	73.36	24	1663	10	100	6.87	0.4	3.475	0.609	64	21	15	522
FUSE-499	549	B	082-25N FU	7.52Y	125.4	0.00	0.60	11.34	23	81	27	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	0.70	11.34	8	81	27	95	0.03	0.0	4.531	1.056	81	27	28	28
OCR-109	549	A	011-70-L	7.52Y	125.4	0.00	0.60	36.86	53	263	89	95	0.00	0.0	3.475	0.000	0	0	0	93
109	OCR-109	A	110-#4 ACS	7.46Y	124.4	1.05	1.65	36.86	26	263	89	95	1.22	0.5	5.612	2.137	120	39	35	93
FUSE-110	109	A	082-25N FU	7.46Y	124.4	0.00	1.65	20.82	40	142	47	95	0.00	0.0	5.612	0.000	0	0	0	58
110	FUSE-110	A	110-#4 ACS	7.43Y	123.9	0.45	2.10	20.82	14	142	47	95	0.23	0.2	8.247	2.635	142	47	58	58
OCR-108	549	ABC	012-100-L	7.52Y	125.4	0.00	0.60	55.61	56	1248	-134	-99	0.00	0.0	3.475	0.000	0	0	0	386
108	OCR-108	ABC	098-#3/0 A	7.50Y	124.9	0.45	1.05	55.61	19	1248	-134	-99	5.17	0.4	4.325	0.850	136	45	41	386
107	108	ABC	116-4-ACWC	7.41Y	123.5	1.44	2.49	46.85	26	1033	-210	-98	13.86	1.3	6.358	2.033	363	130	81	291
4000	107	ABC	116-4-ACWC	7.40Y	123.4	0.10	2.59	33.40	19	655	-349	-88	0.97	0.1	6.572	0.214	31	10	4	210
4001	4000	ABC	Capacitor	7.40Y	123.4	0.00	2.59	32.39	0	623	-360	-87	0.00	0.0	6.572	0.000	0	0	0	206
OCR-106	4001	ABC	011-70-L	7.40Y	123.4	0.00	2.59	29.60	42	623	210	95	0.00	0.0	6.572	0.000	0	0	0	206
106	OCR-106	ABC	098-#3/0 A	7.34Y	122.3	1.11	3.69	29.60	10	623	210	95	3.95	0.6	9.504	2.932	235	77	64	206
OCR-105	106	B	009-35-L	7.34Y	122.3	0.00	3.69	12.77	36	89	29	95	0.00	0.0	9.504	0.000	0	0	0	76
105	OCR-105	B	106-#2 ACS	7.28Y	121.4	0.90	4.59	12.77	7	89	29	95	0.38	0.4	13.743	4.239	89	29	76	76
104	106	ABC	098-#3/0 A	7.33Y	122.2	0.06	3.75	13.29	4	278	93	95	0.11	0.0	9.830	0.327	45	15	7	62
FUSE-103	104	B	083-30N FU	7.33Y	122.2	0.00	3.75	5.52	9	38	13	95	0.00	0.0	9.830	0.000	0	0	0	4
103	FUSE-103	B	117-#6 A-C	7.31Y	121.9	0.35	4.11	5.52	4	38	13	95	0.07	0.2	12.582	2.752	38	13	4	4
C OCR-99	104	A	006-35-H	7.33Y	122.2	0.00	3.75	27.86	80	194	65	95	0.00	0.0	9.830	0.000	0	0	0	51 C
99	OCR-99	A	106-#2 ACS	7.20Y	119.9	2.31	6.06	27.86	15	194	65	95	2.56	1.3	13.353	3.523	112	37	35	51
97	99	A	106-#2 ACS	7.19Y	119.8	0.16	6.23	11.60	6	79	26	95	0.06	0.1	14.194	0.841	79	26	16	16
OCR-4801	106	C	005-25-H	7.34Y	122.3	0.00	3.69	2.57	10	18	6	95	0.00	0.0	9.504	0.000	0	0	0	4
4801	OCR-4801	C	118-#8 A-C	7.34Y	122.3	0.01	3.70	2.57	3	18	6	95	0.00	0.0	9.638	0.134	18	6	4	4
FUSE-545	108	C	080-15N FU	7.50Y	124.9	0.00	1.05	10.37	35	74	24	95	0.00	0.0	4.325	0.000	0	0	0	54
545	FUSE-545	C	110-#4 ACS	7.49Y	124.8	0.10	1.15	10.37	7	74	24	95	0.03	0.0	5.454	1.128	74	24	54	54
P 4053	4050	B	117-#6 A-C	7.34Y	122.3	0.00	3.75	0.00	0	0	0	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	34.26	0	769	110	99	0.00	0.0	0.000	0.000	0	0	0	148
791	8814	ABC	098-#3/0 A	7.54Y	125.6	0.36	0.36	34.26	11	769	110	99	1.88	0.2	0.804	0.804	76	10	5	148
75	791	ABC	098-#3/0 A	7.52Y	125.4	0.28	0.64	30.60	10	685	97	99	1.27	0.2	1.499	0.696	84	11	10	142
OCR-647	75	A	006-35-H	7.52Y	125.4	0.00	0.64	13.01	37	97	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	0.89	1.53	13.01	13	97	13	99	0.44	0.5	3.606	2.107	97	13	34	34
646	75	ABC	098-#3/0 A	7.50Y	125.1	0.30	0.94	22.52	8	503	70	99	1.01	0.2	2.527	1.027	63	9	6	98
OCR-645	646	C	010-50-L	7.50Y	125.1	0.00	0.94	35.07	70	261	36	99	0.00	0.0	2.527	0.000	0	0	0	66
645	OCR-645	C	110-#4 ACS	7.49Y	124.8	0.31	1.25	35.07	25	261	36	99	0.34	0.1	3.823	1.297	260	36	66	66
644	646	ABC	098-#3/0 A	7.50Y	125.0	0.05	0.99	7.99	3	178	24	99	0.05	0.0	3.509	0.982	178	24	26	26
4125	791	ABC	098-#3/0 A	7.54Y	125.6	0.00	0.36	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	107.43	0	2410	359	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	0.45	0.45	107.43	36	2410	359	99	7.51	0.3	0.303	0.303	24	9	6	886
821	498	ABC	098-#3/0 A	7.50Y	125.0	0.59	1.04	91.00	30	2045	218	99	8.48	0.4	0.816	0.513	184	68	25	727
OCR-634	821	C	011-70-L	7.50Y	125.0	0.00	1.04	26.48	38	186	69	94	0.00	0.0	0.816	0.000	0	0	0	95
634	OCR-634	C	110-#4 ACS	7.47Y	124.6	0.39	1.43	26.48	19	186	69	94	0.30	0.2	1.995	1.180	112	41	45	95
866	634	C	117-#6 A-C	7.47Y	124.4	0.14	1.57	10.54	8	74	27	94	0.05	0.1	2.561	0.566	74	27	50	50
96	821	ABC	098-#3/0 A	7.44Y	124.0	0.93	1.97	74.14	25	1666	71	100	11.63	0.7	1.911	1.096	204	81	53	607
OCR-95	96	ABC	012-100-L	7.44Y	124.0	0.00	1.97	36.34	36	760	284	94	0.00	0.0	1.911	0.000	0	0	0	329
95	OCR-95	ABC	106-#2 ACS	7.40Y	123.3	0.78	2.75	36.34	20	760	284	94	4.25	0						

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					mi From	Element		Cons On	Cons Thru				
							Accum Drop	Thru Amps	% Cap	Thru KW	% KVAR		Loss	Loss			Length (mi)	KW	KVAR	
88	90	ABC	098-#3/0 A	7.40Y	123.3	0.07	2.71	6.12	2	127	47	94	0.04	0.0	6.478	1.458	127	47	29	29
OCR-565	92	A	007- 50-H	7.43Y	123.9	0.00	2.14	16.24	32	113	42	94	0.00	0.0	3.230	0.000	0	0	0	78
565	OCR-565	A	117-#6 A-C	7.42Y	123.6	0.21	2.35	16.24	12	113	42	94	0.12	0.1	3.782	0.552	113	42	78	78
OCR-820	498	ABC	011- 70-L	7.53Y	125.6	0.00	0.45	15.74	22	333	124	94	0.00	0.0	0.303	0.000	0	0	0	153
820	OCR-820	ABC	110-#4 ACS	7.52Y	125.4	0.17	0.61	15.74	11	333	124	94	0.25	0.1	1.559	1.256	140	52	87	153
637	820	ABC	110-#4 ACS	7.52Y	125.3	0.05	0.66	9.15	7	194	72	94	0.03	0.0	2.587	1.028	193	72	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	8766	0	0	0	0	0	364	0.00	9130	Lowest Voltage = 119.01 on Element 4924
KVAR	3283	0	-2283	0	0	0	396		1395	Max Accm VoltD = 6.99 on Element 4924
										Max Elem VoltD = 2.87 on Element 94

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Balanced Voltage Drop Report
Source: 8160

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

		Units Displayed In Volts										mi		Element		Cons				
		-Base Voltage:120.0-										From		Length		On Thru				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	PF	kW Loss	% Loss	Src	(mi)	KW	KVAR	On	Thru
8160		ABC	SRC-8160-D	7.56Y	126.0	0.00	0.00	260.37	0	5818	1011	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	26.20	0	588	85	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	26.20	11	588	85	99	0.03	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	26.20	37	588	85	99	0.00	0.0	0.012	0.000	0	0	0	140
53	OCR-53	ABC	098-#3/0 A	7.51Y	125.2	0.79	0.80	26.20	9	588	85	99	3.05	0.5	2.394	2.382	105	5	32	140
4932	53	ABC	110-#4 ACS	7.51Y	125.2	0.00	0.80	7.54	5	160	58	94	0.00	0.0	2.450	0.056	102	55	4	8
4940	4932	ABC	090-336 AC	7.51Y	125.2	0.00	0.81	2.56	0	58	3	100	0.00	0.0	2.856	0.406	36	2	2	4
4942	4940	ABC	602-1/OAL	7.51Y	125.2	0.00	0.81	0.94	0	21	1	100	0.00	0.0	2.967	0.111	0	0	0	2
4943	4942	ABC	602-1/OAL	7.51Y	125.2	0.00	0.81	0.94	0	21	1	100	0.00	0.0	3.133	0.166	0	0	0	2
4946	4943	ABC	602-1/OAL	7.51Y	125.2	0.00	0.81	0.94	0	21	1	100	0.00	0.0	3.250	0.117	21	1	2	2
610	53	ABC	098-#3/0 A	7.51Y	125.1	0.09	0.89	14.24	5	320	19	100	0.21	0.1	2.882	0.488	11	2	4	100
OCR-609	610	B	049-100-63	7.51Y	125.1	0.00	0.89	3.52	4	26	1	100	0.00	0.0	2.882	0.000	0	0	0	9
609	OCR-609	B	118-#8 A-C	7.49Y	124.9	0.26	1.15	3.52	4	26	1	100	0.04	0.1	5.211	2.329	26	1	9	9
40	610	ABC	098-#3/0 A	7.49Y	124.8	0.33	1.22	12.58	4	283	16	100	0.67	0.2	5.098	2.216	42	2	10	87
44	40	ABC	098-#3/0 A	7.47Y	124.5	0.32	1.54	10.73	4	241	13	100	0.50	0.2	8.105	3.006	104	5	38	77
OCR-43	44	C	006- 35-H	7.47Y	124.5	0.00	1.54	16.10	46	120	6	100	0.00	0.0	8.105	0.000	0	0	0	30
43	OCR-43	C	106-#2 ACS	7.43Y	123.8	0.66	2.20	16.10	9	120	6	100	0.57	0.5	9.678	1.573	22	1	3	30
FUSE-42	43	C	081-20N FU	7.43Y	123.8	0.00	2.20	13.18	33	98	5	100	0.00	0.0	9.678	0.000	0	0	0	27
42	FUSE-42	C	110-#4 ACS	7.42Y	123.6	0.21	2.41	13.18	9	98	5	100	0.10	0.1	12.433	2.756	98	5	27	27
OCR-772	44	C	049-100-63	7.47Y	124.5	0.00	1.54	1.59	2	12	1	100	0.00	0.0	8.105	0.000	0	0	0	5
772	OCR-772	C	106-#2 ACS	7.46Y	124.4	0.07	1.60	1.59	1	12	1	100	0.00	0.0	11.016	2.911	12	1	5	5
OCR-45	44	B	049-100-63	7.47Y	124.5	0.00	1.54	0.63	1	5	0	100	0.00	0.0	8.105	0.000	0	0	0	4
45	OCR-45	B	106-#2 ACS	7.47Y	124.4	0.01	1.55	0.63	0	5	0	100	0.00	0.0	9.670	1.566	5	0	4	4
Feeder NO. 3		Beginning with Node Element feeder3																		
feeder3	8160	ABC	Node	7.56Y	126.0	0.00	0.00	154.58	0	3441	668	98	0.00	0.0	0.000	0.000	0	0	0	1002
C 8163	feeder3	ABC	002-1/0 15	7.56Y	126.0	0.04	0.04	154.58	68	3441	668	98	0.98	0.0	0.012	0.012	0	0	0	1002 C
4829	8163	ABC	090-336 AC	7.54Y	125.6	0.32	0.36	154.58	29	3441	668	98	6.30	0.2	0.339	0.327	120	42	15	1002
OCR-834	4829	C	049-100-63	7.54Y	125.6	0.00	0.36	0.00	0	0	0	0	0.00	0.0	0.339	0.000	0	0	0	0
834	OCR-834	C	118-#8 A-C	7.54Y	125.6	0.00	0.36	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	7.52Y	125.3	0.33	0.69	149.04	50	3314	612	98	7.45	0.2	0.493	0.155	0	0	0	987
819	816	ABC	Capacitor	7.52Y	125.3	0.00	0.69	149.04	0	3307	604	98	0.00	0.0	0.493	0.000	0	0	0	987
64	819	ABC	098-#3/0 A	7.35Y	122.5	2.86	3.55	155.83	52	3307	1191	94	59.89	1.8	1.676	1.182	154	49	115	987
OCR-66	64	ABC	011- 70-L	7.35Y	122.5	0.00	3.55	148.57	212	3094	1074	94	0.00	0.0	1.676	0.000	0	0	0	872 C
66	OCR-66	ABC	098-#3/0 A	7.22Y	120.3	2.18	5.73	148.57	50	3094	1074	94	43.92	1.4	2.624	0.949	124	40	26	872
826	66	ABC	Capacitor	7.22Y	120.3	0.00	5.73	125.08	0	2565	867	95	0.00	0.0	2.624	0.000	0	0	0	607
639	826	ABC	098-#3/0 A	7.14Y	119.0	1.32	7.05	126.12	42	2565	935	94	22.44	0.9	3.288	0.664	63	20	15	607
OCR-638	639	B	060-35-4H	7.14Y	119.0	0.00	7.05	8.55	24	58	19	95	0.00	0.0	3.288	0.000	0	0	0	45
638	OCR-638	B	110-#4 ACS	7.13Y	118.9	0.09	7.14	8.55	6	58	19	95	0.02	0.0	4.552	1.263	58	19	45	45
4833	639	ABC	098-#3/0 A	7.12Y	118.7	0.27	7.32	117.34	39	2363	852	94	4.28	0.2	3.432	0.143	0	0	0	529
4834	4833	ABC	Regulator	7.56Y	126.0	-7.32	0.00	117.34	54	2359	847	94	0.00	0.0	3.432	0.000	0	0	0	529
4835	4834	ABC	098-#3/0 A	7.54Y	125.6	0.38	0.38	110.53	37	2359	847	94	5.64	0.2	3.648	0.217	52	17	8	529
68	4835	ABC	098-#3/0 A	7.45Y	124.1	1.50	1.88	108.12	36	2302	824	94	21.49	0.9	4.561	0.912	202	65	71	521
FUSE-805	68	ABC	082-25N FU	7.45Y	124.1	0.00	1.88	17.67	35	292	266	74	0.00	0.0	4.561	0.000	0	0	0	13
805	FUSE-805	ABC	106-#2 ACS	7.44Y	123.9	0.19	2.06	17.67	10	292	266	74	0.34	0.1	5.342	0.781	291	266	13	13
OCR-559	68	A	049-100-63	7.45Y	124.1	0.00	1.88	53.50	53	379	123	95	0.00	0.0	4.561	0.000	0	0	0	88
559	OCR-559	A	118-#8 A-C	7.17Y	119.5	4.66	6.54	53.50	53	379	123	95	13.06	3.4	5.985	1.424	65	21	13	88
67	559	A	118-#8 A-C	7.16Y	119.4	0.06	6.59	3.55	4	24	8	95	0.01	0.0	6.460	0.475	24	8	3	8
825	559	A	118-#8 A-C	7.15Y	119.2	0.25	6.79	7.64	8	52	17	95	0.07	0.1	6.976	0.991	52	17	6	6
642	559	A	118-#8 A-C	7.13Y	118.8	0.64	7.18	18.42	18	126	41	95	0.44	0.3	7.024	1.039	125	40	38	38
560	559	A	110-#4 ACS	7.16Y	119.3	0.18	6.71	14.52	10	99	32	95	0.06	0.1	7.413	1.428	99	32	28	28
FUSE-74	68	ABC	085-50N FU	7.45Y	124.1	0.00	1.88	64.88	65	1408	345	97	0.00	0.0	4.561	0.000	0	0	0	349
74	FUSE-74	ABC	098-#3/0 A	7.41Y	123.5	0.64	2.52	64.88	22	1408	345	97	5.99	0.4	5.245	0.684	63	28	26	349
954	74	ABC	Capacitor	7.41Y	123.5	0.00	2.52	61.84	0	1339	311	97	0.00	0.0	5.245	0.000	0	0	0	323
811	954	ABC	098-#3/0 A	7.37Y	122.8	0.68	3.20	63.60	21	1339	453	95	5.93	0.4	5.934	0.690	33	10	4	323
501	811	ABC	098-#3/0 A	7.33Y	122.2	0.60	3.80	40.70	14	852	289	95	3.29	0.4	6.883	0.948	36	12	3	165
71	501	ABC	100-#2/0 A	7.26Y	120.9	1.26	5.06	38.98	14	812	274	95	6.67	0.8	8.957	2.074	0	0	0	162
OCR-824	71	C	050-140-11	7.26Y	120.9	0.00	5.06	0.00	0	0	0	0	0.00	0.0	8.957	0.000	0	0	0	0
824	OCR-824	C	118-#8 A-C	7.26Y	120.9	0.00	5.06	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	7.26Y	120.9	0.00	5.06	12.64	25	87	28	95	0.00	0.0						

Balanced Voltage Drop Report
Source: 8160

Detail

Database: C:\HILSOFT\DATA\ORIGINAL FROM POE\WINTER 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	PF	% Loss	% Loss	mi From Src	Length (mi)	Element KW	KVAR	Cons On	Cons Thru
4033	66	ABC	098-#3/0 A	7.22Y	120.3	0.01	5.74	17.50	6	360	117	95	0.04	0.0	2.678	0.054	0	0	0	239
65	4033	ABC	098-#3/0 A	7.20Y	120.0	0.30	6.05	17.50	6	360	117	95	0.72	0.2	3.823	1.144	25	8	30	239
828	65	ABC	102-#1/0 A	7.18Y	119.7	0.24	6.28	16.29	7	335	108	95	0.53	0.2	4.654	0.831	37	12	26	209
827	828	C	117-#6 A-C	7.17Y	119.5	0.19	6.48	10.17	7	70	22	95	0.07	0.1	5.478	0.824	69	22	47	47
OCR-571	828	B	007- 50-H	7.18Y	119.7	0.00	6.28	16.22	32	111	36	95	0.00	0.0	4.654	0.000	0	0	0	58
571	OCR-571	B	110-#4 ACS	7.18Y	119.6	0.13	6.41	16.22	12	111	36	95	0.05	0.0	5.582	0.928	111	36	58	58
OCR-570	828	B	006- 35-H	7.18Y	119.7	0.00	6.28	17.04	49	116	38	95	0.00	0.0	4.654	0.000	0	0	0	78
570	OCR-570	B	117-#6 A-C	7.17Y	119.4	0.27	6.55	17.04	12	116	38	95	0.16	0.1	5.338	0.684	116	37	78	78
Feeder NO. 2 Beginning with Node Element feeder 2																				
feeder 2	8160	ABC	Node	7.56Y	126.0	0.00	0.00	37.73	0	847	122	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	37.73	17	847	122	99	0.06	0.0	0.012	0.012	0	0	0	160
4831	8162	ABC	090-336 AC	7.55Y	125.9	0.08	0.09	37.73	7	847	122	99	0.40	0.0	0.347	0.335	0	0	0	160
4035	4831	ABC	098-#3/0 A	7.55Y	125.9	0.03	0.11	37.73	13	847	121	99	0.17	0.0	0.401	0.054	0	0	0	160
62	4035	ABC	098-#3/0 A	7.52Y	125.4	0.51	0.63	37.73	13	846	121	99	2.87	0.3	1.476	1.075	143	19	26	160
OCR-61	62	B	011- 70-L	7.52Y	125.4	0.00	0.63	11.56	17	86	12	99	0.00	0.0	1.476	0.000	0	0	0	25
61	OCR-61	B	118-#8 A-C	7.49Y	124.8	0.56	1.19	11.56	12	86	12	99	0.31	0.4	2.476	0.999	43	6	13	25
558	61	B	118-#8 A-C	7.48Y	124.6	0.17	1.36	5.72	6	42	6	99	0.04	0.1	3.410	0.934	42	6	12	12
1600	62	ABC	098-#3/0 A	7.52Y	125.3	0.12	0.74	27.50	9	615	86	99	0.50	0.1	1.780	0.304	0	0	0	109
C OCR-1603	1600	A	006- 35-H	7.52Y	125.3	0.00	0.74	29.59	85	220	31	99	0.00	0.0	1.780	0.000	0	0	0	37 C
1603	OCR-1603	A	066-#2 ACS	7.51Y	125.2	0.07	0.82	29.59	16	220	31	99	0.12	0.1	1.864	0.084	0	0	0	37
OCR-836	1603	A	051-140-63	7.51Y	125.2	0.00	0.82	11.29	8	84	12	99	0.00	0.0	1.864	0.000	0	0	0	9
836	OCR-836	A	106-#2 ACS	7.51Y	125.1	0.03	0.85	11.29	6	84	12	99	0.02	0.0	1.971	0.108	19	3	1	9
508	836	A	118-#8 A-C	7.49Y	124.9	0.30	1.15	8.74	9	65	9	99	0.10	0.2	3.022	1.050	65	9	8	8
FUSE-56	1603	A	082-25N FU	7.51Y	125.2	0.00	0.82	18.30	37	136	19	99	0.00	0.0	1.864	0.000	0	0	0	28
56	FUSE-56	A	118-#8 A-C	7.45Y	124.2	0.97	1.79	18.30	18	136	19	99	0.87	0.6	2.903	1.039	59	8	11	28
OCR-54	56	A	047-70-63	7.45Y	124.2	0.00	1.79	10.34	15	76	11	99	0.00	0.0	2.903	0.000	0	0	0	17
54	OCR-54	A	118-#8 A-C	7.37Y	122.9	1.32	3.11	10.34	10	76	11	99	0.59	0.8	6.005	3.102	56	8	10	17
OCR-844	54	A	047-70-63	7.37Y	122.9	0.00	3.11	2.76	4	20	3	99	0.00	0.0	6.005	0.000	0	0	0	7
844	OCR-844	A	118-#8 A-C	7.37Y	122.8	0.10	3.21	2.76	3	20	3	99	0.01	0.1	7.174	1.169	20	3	7	7
1601	1600	ABC	098-#3/0 A	7.50Y	125.0	0.30	1.05	17.64	6	394	55	99	0.77	0.2	3.204	1.424	96	13	16	72
1602	1601	ABC	098-#3/0 A	7.49Y	124.8	0.11	1.16	13.32	4	297	41	99	0.22	0.1	3.833	0.628	37	5	6	56
OCR-846	1602	A	006- 35-H	7.49Y	124.8	0.00	1.16	18.07	52	134	19	99	0.00	0.0	3.833	0.000	0	0	0	33
846	OCR-846	A	118-#8 A-C	7.42Y	123.6	1.23	2.39	18.07	18	134	19	99	0.85	0.6	5.930	2.098	133	18	33	33
OCR-59	1602	C	006- 35-H	7.49Y	124.8	0.00	1.16	4.83	14	36	5	99	0.00	0.0	3.833	0.000	0	0	0	5
59	OCR-59	C	118-#8 A-C	7.46Y	124.4	0.44	1.59	4.83	5	36	5	99	0.08	0.2	6.618	2.786	36	5	5	5
OCR-55	1602	C	006- 35-H	7.49Y	124.8	0.00	1.16	12.04	34	89	12	99	0.00	0.0	3.833	0.000	0	0	0	12
55	OCR-55	C	118-#8 A-C	7.44Y	124.1	0.77	1.92	12.04	12	89	12	99	0.43	0.5	5.164	1.332	47	6	4	12
845	55	C	118-#8 A-C	7.42Y	123.7	0.35	2.27	5.62	6	41	6	99	0.07	0.2	7.054	1.890	41	6	8	8
Feeder NO. 1 Beginning with Node Element feeder 1																				
feeder 1	8160	ABC	Node	7.56Y	126.0	0.00	0.00	41.93	0	941	136	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	41.93	18	941	136	99	0.07	0.0	0.012	0.012	0	0	0	143
4832	8161	ABC	090-336 AC	7.55Y	125.9	0.09	0.09	41.93	8	941	136	99	0.49	0.1	0.344	0.332	0	0	0	143
C OCR-63	4832	ABC	007- 50-H	7.55Y	125.9	0.00	0.09	41.93	84	941	135	99	0.00	0.0	0.344	0.000	0	0	0	143 C
63	OCR-63	ABC	098-#3/0 A	7.50Y	124.9	0.97	1.06	41.93	14	941	135	99	6.20	0.7	1.980	1.636	37	-72	40	143
OCR-57	63	C	050-140-11	7.50Y	124.9	0.00	1.06	1.76	1	6	-12	-45	0.00	0.0	1.980	0.000	0	0	0	13
P 57	OCR-57	C	117-#6 A-C	7.50Y	124.9	-0.00	1.06	1.76	1	6	-12	-45	0.00	0.0	3.288	1.307	6	-12	13	13 P
815	63	ABC	098-#3/0 A	7.47Y	124.4	0.51	1.57	40.75	14	892	212	97	3.00	0.3	2.819	0.838	30	-41	30	90
OCR-557	815	A	010- 50-L	7.47Y	124.4	0.00	1.57	7.01	14	24	-46	-46	0.00	0.0	2.819	0.000	0	0	0	53
P 557	OCR-557	A	110-#4 ACS	7.47Y	124.5	-0.09	1.49	7.01	5	24	-46	-46	0.02	0.1	4.435	1.616	24	-47	53	53 P
P 91	815	ABC	098-#3/0 A	7.47Y	124.4	-0.00	1.57	0.38	0	4	-8	-45	0.00	0.0	3.305	0.486	4	-8	3	3 P
P 814	815	ABC	Regulator	7.56Y	126.0	-1.57	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	7.46Y	124.3	0.15	1.72	38.72	13	814	298	94	0.52	0.1	3.302	0.483	814	297	2	2
817	815	ABC	098-#3/0 A	7.47Y	124.4	0.00	1.57	0.78	0	16	6	94	0.00	0.0	3.199	0.380	16	6	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	5568	0	0	0	0	0	250	0.00	5818	Lowest Voltage = 116.34 on Element 126
KVAR	1537	0	-797	0	0	0	272		1011	Max Accm VoltD = 9.66 on Element 126
										Max Elem VoltD = 4.66 on Element 559

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Balanced Voltage Drop Report
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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	Thru Cap	Thru KW	KVAR	% PF	KW Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
8800		ABC	SRC-8800-D	7.56Y	126.0	0.00	0.00	471.28	0	10287	2904	96	0.00	0.0	0.000	0.000	0	0	0	2162
Feeder NO. 6		Beginning with Node Element 8806																		
8806	8800	ABC	Node	7.56Y	126.0	0.00	0.00	97.02	0	2088	693	95	0.00	0.0	0.000	0.000	0	0	0	426
394	8806	ABC	113-2F 7/1	7.37Y	122.8	3.23	3.23	97.02	57	2088	693	95	45.01	2.2	1.821	1.821	1	1	2	426
991	394	ABC	Regulator	7.56Y	126.0	-3.23	0.00	61.01	28	1318	286	98	0.00	0.0	1.821	0.000	0	0	0	416
990	991	ABC	116-4-ACWC	7.49Y	124.8	1.15	1.15	59.45	33	1318	286	98	11.20	0.8	2.578	0.757	4	0	2	416
OCR-897	990	ABC	012-100-L	7.49Y	124.8	0.00	1.15	24.46	24	549	32	100	0.00	0.0	2.578	0.000	0	0	0	210
897	OCR-897	ABC	098-#3/0 A	7.48Y	124.7	0.17	1.32	24.46	8	549	32	100	0.71	0.1	3.126	0.548	1	0	1	210
393	897	ABC	098-#3/0 A	7.46Y	124.3	0.42	1.74	24.44	8	548	31	100	1.73	0.3	4.465	1.339	50	2	19	209
391	393	ABC	098-#3/0 A	7.44Y	124.0	0.25	1.99	22.22	7	496	27	100	0.95	0.2	5.355	0.890	34	7	9	190
OCR-390	391	A	006-35-H	7.44Y	124.0	0.00	1.99	11.44	33	85	4	100	0.00	0.0	5.355	0.800	0	0	0	39
390	OCR-390	A	100-#2/0 A	7.40Y	123.4	0.62	2.61	11.44	4	85	4	100	0.40	0.5	8.736	3.381	85	3	39	39
389	390	ABC	098-#3/0 A	7.43Y	123.9	0.12	2.12	16.88	6	376	16	100	0.36	0.1	5.931	0.576	0	0	0	142
388	389	ABC	098-#3/0 A	7.43Y	123.8	0.09	2.21	7.53	3	168	7	100	0.12	0.1	6.897	0.966	31	1	9	60
1405	388	B	106-#2 ACS	7.43Y	123.8	0.00	2.21	2.99	2	22	1	100	0.00	0.0	6.948	0.051	0	0	0	11
OCR-1406	1405	B	061-50-4H	7.43Y	123.8	0.00	2.21	2.99	6	22	1	100	0.00	0.0	6.948	0.000	0	0	0	11
1406	OCR-1406	B	106-#2 ACS	7.42Y	123.7	0.08	2.29	2.99	2	22	1	100	0.01	0.1	7.898	0.950	22	1	11	11
1388	388	ABC	098-#3/0 A	7.43Y	123.8	0.02	2.23	5.14	2	115	4	100	0.02	0.0	7.203	0.306	26	1	7	40
1389	1388	ABC	098-#3/0 A	7.43Y	123.8	0.00	2.23	4.00	1	89	3	100	0.00	0.0	7.274	0.071	23	1	5	33
1403	1389	A	106-#2 ACS	7.42Y	123.7	0.09	2.32	5.84	3	43	2	100	0.03	0.1	7.802	0.528	23	1	12	19
1404	1403	A	117-#6 A-C	7.42Y	123.7	0.03	2.35	2.77	2	21	1	100	0.00	0.0	8.059	0.257	21	1	7	7
OCR-1400	1389	C	006-35-H	7.43Y	123.8	0.00	2.23	3.04	9	23	1	100	0.00	0.0	7.274	0.000	0	0	0	9
1400	OCR-1400	C	110-#4 ACS	7.43Y	123.8	0.02	2.25	3.04	2	23	1	100	0.00	0.0	7.763	0.489	21	1	7	9
1401	1400	C	098-#3/0 A	7.43Y	123.8	0.00	2.25	0.27	0	2	0	100	0.00	0.0	8.134	0.371	2	0	2	2
1402	1401	C	098-#3/0 A	7.43Y	123.8	0.00	2.25	0.00	0	0	0	0	0.00	0.0	8.433	0.300	0	0	0	0
4931	389	ABC	116-4-ACWC	7.41Y	123.6	0.30	2.42	9.35	5	208	9	100	0.50	0.2	7.299	1.369	43	2	16	82
387	4931	ABC	116-4-ACWC	7.41Y	123.4	0.15	2.57	7.40	4	164	7	100	0.20	0.1	8.152	0.853	68	3	20	66
386	387	ABC	116-4-ACWC	7.40Y	123.3	0.12	2.69	4.36	2	97	4	100	0.09	0.1	9.276	1.123	31	1	13	46
OCR-385	386	A	006-35-H	7.40Y	123.3	0.00	2.69	8.87	25	66	3	100	0.00	0.0	9.276	0.000	0	0	0	33
385	OCR-385	A	117-#6 A-C	7.35Y	122.5	0.82	3.51	8.87	6	66	3	100	0.43	0.7	11.500	2.224	65	3	33	33
514	990	ABC	098-#3/0 A	7.48Y	124.7	0.16	1.31	35.28	12	753	247	95	0.77	0.1	2.861	0.284	14	1	5	204
OCR-376	514	C	007-50-H	7.48Y	124.7	0.00	1.31	14.41	29	108	5	100	0.00	0.0	2.861	0.000	0	0	0	67
376	OCR-376	C	117-#6 A-C	7.39Y	123.2	1.50	2.81	14.41	10	108	5	100	1.27	1.2	5.353	2.491	106	4	67	67
707	514	ABC	098-#3/0 A	7.47Y	124.5	0.15	1.45	30.09	10	631	241	93	0.59	0.1	3.162	0.300	400	230	18	132
OCR-382	707	A	011-70-L	7.47Y	124.5	0.00	1.45	19.66	28	147	7	100	0.00	0.0	3.162	0.000	0	0	0	76
382	OCR-382	A	106-#2 ACS	7.42Y	123.6	0.94	2.39	19.66	11	147	7	100	1.07	0.7	4.846	1.685	70	3	37	76
OCR-380	382	A	051-140-63	7.42Y	123.6	0.00	2.39	10.20	7	76	3	100	0.00	0.0	4.846	0.000	0	0	0	39
380	OCR-380	A	106-#2 ACS	7.37Y	122.8	0.82	3.22	10.20	6	76	3	100	0.49	0.6	7.701	2.855	58	2	30	39
OCR-381	380	A	051-140-63	7.37Y	122.8	0.00	3.22	2.29	2	17	1	100	0.00	0.0	7.701	0.000	0	0	0	9
381	OCR-381	A	118-#8 A-C	7.35Y	122.5	0.29	3.51	2.29	2	17	1	100	0.04	0.2	9.695	1.994	17	1	9	9
OCR-379	707	ABC	007-50-H	7.47Y	124.5	0.00	1.45	3.75	7	84	3	100	0.00	0.0	3.162	0.000	0	0	0	38
379	OCR-379	ABC	098-#3/0 A	7.47Y	124.5	0.03	1.48	3.75	1	84	3	100	0.02	0.0	3.779	0.618	31	1	5	38
FUSE-378	379	B	083-30N FU	7.47Y	124.5	0.00	1.48	5.79	10	43	2	100	0.00	0.0	3.779	0.000	0	0	0	22
378	FUSE-378	B	117-#6 A-C	7.44Y	124.1	0.44	1.93	5.79	4	43	2	100	0.15	0.3	5.612	1.833	43	2	22	22
377	379	ABC	098-#3/0 A	7.47Y	124.5	0.01	1.50	0.45	0	10	0	100	0.00	0.0	6.052	2.272	10	0	11	11
823	394	ABC	116-4-ACWC	7.34Y	122.3	0.45	3.68	36.66	20	724	363	89	2.55	0.4	2.275	0.454	722	361	8	8
Feeder NO. 5		Beginning with Node Element 8805																		
8805	8800	ABC	Node	7.56Y	126.0	0.00	0.00	77.17	0	1661	551	95	0.00	0.0	0.000	0.000	0	0	0	296
405	8805	ABC	098-#3/0 A	7.45Y	124.2	1.82	1.82	77.17	26	1661	551	95	19.46	1.2	1.506	1.506	419	231	48	296
OCR-404	405	C	009-35-L	7.45Y	124.2	0.00	1.82	1.39	4	10	2	98	0.00	0.0	1.506	0.000	0	0	0	2
404	OCR-404	C	117-#6 A-C	7.44Y	124.1	0.12	1.94	1.39	1	10	2	98	0.01	0.0	3.410	1.904	10	2	2	2
403	405	ABC	098-#3/0 A	7.38Y	122.9	1.25	3.07	52.75	18	1144	286	97	9.58	0.8	3.093	1.587	277	125	31	230
OCR-402	403	B	007-50-H	7.38Y	122.9	0.00	3.07	31.56	63	229	41	98	0.00	0.0	3.093	0.000	0	0	0	64
402	OCR-402	B	106-#2 ACS	7.25Y	120.8	2.14	5.21	31.56	18	229	41	98	3.59	1.6	5.285	2.192	78	13	22	64
FUSE-401	402	B	083-30N FU	7.25Y	120.8	0.00	5.21	13.40	22	96	16	99	0.00	0.0	5.285	0.000	0	0	0	29
401	FUSE-401	B	117-#6 A-C	7.20Y	119.9	0.84	6.05	13.40	10	96	16	99	0.62	0.7	6.704	1.419	51	8	17	29
396	401	B	117-#6 A-C	7.17Y	119.5	0.45	6.50	6.23	4	44	7	99	0.16	0.4	8.342	1.638	44	7	12	12
400	402	B	106-#2 ACS	7.23Y	120.5	0.32	5.53	7.31	4	52	9	99	0.13	0.2	6.716	1.431	52	9	13	13
FUSE-399	403	ABC	083-30N FU	7.38Y	122.9	0.00	3.07	24.96	42	544	95	99	0.00	0.0	3.093	0.000	0	0	0	119
399	FUSE-399	ABC	098-#3/0 A	7.36Y	122.7	0.27	3.34	24.96	8	544	95	99	1.03	0.2	3.853	0.760	111	18	15	

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		Units Displayed In Volts													mi				Element	
		-Base Voltage:120.0-													From		Length		Cons	
Element Name	Parent Name	Chf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	Thru Cap	Thru KW	KVAR	% PF	% Loss	% Loss	Src	(mi)	KW	KVAR	On	Thru
OCR-413	4115	C	061-50-4H	7.39Y	123.2	0.00	2.79	32.29	65	235	40	99	0.00	0.0	3.049	0.000	0	0	0	53
413	OCR-413	C	106-#2 ACS	7.30Y	121.6	1.58	4.37	32.29	18	235	40	99	2.73	1.2	4.644	1.595	233	38	53	53
4131	4115	ABC	106-#2 ACS	7.39Y	123.2	0.05	2.84	5.59	3	122	20	99	0.04	0.0	3.372	0.323	18	3	3	28
OCR-4132	4131	B	061-50-4H	7.39Y	123.2	0.00	2.84	14.28	29	104	17	99	0.00	0.0	3.372	0.000	0	0	0	25
4132	OCR-4132	B	106-#2 ACS	7.38Y	123.1	0.10	2.94	14.28	8	104	17	99	0.08	0.1	3.604	0.231	0	0	0	25
4133	4132	B	106-#2 ACS	7.36Y	122.6	0.42	3.36	14.28	8	104	17	99	0.32	0.3	4.560	0.957	4	1	1	25
OCR-4144	4133	B	051-140-63	7.36Y	122.6	0.00	3.36	13.76	10	100	16	99	0.00	0.0	4.560	0.000	0	0	0	24
4144	OCR-4144	B	106-#2 ACS	7.33Y	122.2	0.41	3.77	13.76	8	100	16	99	0.30	0.3	5.538	0.978	100	16	24	24
OCR-4104	4103	A	010- 50-L	7.40Y	123.4	0.00	2.62	27.27	55	199	33	99	0.00	0.0	2.667	0.000	0	0	0	39
4104	OCR-4104	A	106-#2 ACS	7.37Y	122.9	0.50	3.12	27.27	15	199	33	99	0.72	0.4	3.257	0.590	61	10	3	39
732	4104	A	118-#8 A-C	7.27Y	121.1	1.75	4.87	18.93	19	138	23	99	1.88	1.4	4.666	1.409	136	22	36	36
525	427	C	110-#4 ACS	7.40Y	123.4	0.21	2.59	14.63	10	107	18	99	0.14	0.1	3.339	1.030	107	17	15	15
OCR-426	4080	C	049-100-63	7.48Y	124.6	0.00	1.39	23.31	23	172	28	99	0.00	0.0	1.292	0.000	0	0	0	63
426	OCR-426	C	118-#8 A-C	7.47Y	124.4	0.17	1.56	23.31	23	172	28	99	0.22	0.1	1.401	0.109	172	28	63	63
Feeder NO. 3		Beginning with Node Element 8803																		
8803	8800	ABC	Node	7.56Y	126.0	0.00	0.00	63.71	0	1401	352	97	0.00	0.0	0.000	0.000	0	0	0	376
428	8803	ABC	102-#1/0 A	7.52Y	125.3	0.68	0.68	63.71	28	1401	352	97	6.48	0.5	0.600	0.600	407	146	122	376
FUSE-729	428	ABC	083-30N FU	7.52Y	125.3	0.00	0.68	28.69	48	643	78	99	0.00	0.0	0.600	0.000	0	0	0	142
729	FUSE-729	ABC	106-#2 ACS	7.51Y	125.1	0.21	0.89	28.69	16	643	78	99	1.03	0.2	0.895	0.295	164	12	61	142
4101	729	ABC	106-#2 ACS	7.51Y	125.1	0.01	0.90	16.05	9	360	28	100	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	0.90	16.05	16	360	28	100	0.00	0.0	0.915	0.000	0	0	0	70
4102	OCR-4102	ABC	098-#3/0 A	7.50Y	125.1	0.03	0.93	16.05	5	360	28	100	0.08	0.0	1.058	0.142	72	6	9	70
OCR-730	4102	ABC	061-50-4H	7.50Y	125.1	0.00	0.93	12.84	26	288	23	100	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	1.20	12.84	13	288	23	100	0.62	0.2	1.412	0.354	31	2	4	61
OCR-733	730	ABC	051-140-63	7.49Y	124.8	0.00	1.20	11.47	8	257	20	100	0.00	0.0	1.412	0.000	0	0	0	57
733	OCR-733	ABC	118-#8 A-C	7.45Y	124.1	0.66	1.86	11.47	11	257	20	100	1.34	0.5	2.381	0.969	116	9	28	57
OCR-4105	733	A	050-140-11	7.45Y	124.1	0.00	1.86	11.37	8	84	7	100	0.00	0.0	2.381	0.000	0	0	0	14
4105	OCR-4105	A	106-#2 ACS	7.44Y	123.9	0.22	2.08	11.37	6	84	7	100	0.14	0.2	3.034	0.653	84	6	14	14
OCR-1733	733	C	007- 50-H	7.45Y	124.1	0.00	1.86	7.49	15	56	4	100	0.00	0.0	2.381	0.000	0	0	0	15
1733	OCR-1733	C	118-#8 A-C	7.41Y	123.5	0.63	2.49	7.49	7	56	4	100	0.28	0.5	3.698	1.317	55	4	15	15
4100	729	ABC	118-#8 A-C	7.50Y	125.1	0.03	0.92	5.47	5	118	37	95	0.03	0.0	0.986	0.091	117	37	11	11
FUSE-728	428	ABC	080-15N FU	7.52Y	125.3	0.00	0.68	16.24	54	346	122	94	0.00	0.0	0.600	0.000	0	0	0	112
728	FUSE-728	ABC	098-#3/0 A	7.51Y	125.2	0.14	0.82	16.24	5	346	122	94	0.32	0.1	1.152	0.552	345	121	112	112
P 4114	728	ABC	110-#4 ACS	7.51Y	125.2	0.00	0.82	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	99.28	0	2181	557	97	0.00	0.0	0.000	0.000	0	0	0	426
488	8802	ABC	098-#3/0 A	7.47Y	124.5	1.50	1.50	99.28	33	2181	557	97	21.51	1.0	1.006	1.006	167	37	19	426
424	488	ABC	098-#3/0 A	7.39Y	123.2	1.27	2.77	79.90	27	1736	438	97	14.74	0.8	2.071	1.065	159	35	23	336
OCR-423	424	A	049-100-63	7.39Y	123.2	0.00	2.77	5.03	5	36	8	98	0.00	0.0	2.071	0.000	0	0	0	9
423	OCR-423	A	117-#6 A-C	7.38Y	123.1	0.15	2.92	5.03	4	36	8	98	0.04	0.1	2.721	0.650	36	8	9	9
422	424	ABC	098-#3/0 A	7.31Y	121.8	1.42	4.19	70.86	24	1526	378	97	14.61	1.0	3.413	1.342	20	4	4	304
1408	422	A	106-#2 ACS	7.31Y	121.8	0.02	4.21	32.64	18	233	52	98	0.03	0.0	3.430	0.017	0	0	0	35
OCR-421	1408	A	061-50-4H	7.31Y	121.8	0.00	4.21	32.64	65	233	52	98	0.00	0.0	3.430	0.000	0	0	0	35
421	OCR-421	A	106-#2 ACS	7.30Y	121.7	0.10	4.30	32.64	18	233	52	98	0.16	0.1	3.524	0.094	38	8	3	35
1409	421	A	106-#2 ACS	7.29Y	121.5	0.18	4.48	27.32	15	195	44	98	0.25	0.1	3.729	0.205	51	11	4	32
1410	1409	A	106-#2 ACS	7.29Y	121.5	0.03	4.51	20.20	11	144	32	98	0.03	0.0	3.774	0.045	22	5	6	28
1411	1410	A	106-#2 ACS	7.28Y	121.3	0.18	4.69	17.18	10	122	27	98	0.16	0.1	4.109	0.335	46	10	7	22
1412	1411	A	106-#2 ACS	7.27Y	121.1	0.19	4.88	10.65	6	76	17	98	0.10	0.1	4.657	0.548	76	17	15	15
706	422	ABC	098-#3/0 A	7.22Y	120.3	1.53	5.72	59.06	20	1259	305	97	13.22	1.1	5.160	1.748	212	47	41	265
420	706	ABC	098-#3/0 A	7.18Y	119.7	0.58	6.30	49.01	16	1033	243	97	4.16	0.4	5.959	0.799	129	29	15	224
OCR-419	420	A	007- 50-H	7.18Y	119.7	0.00	6.30	23.11	46	162	36	98	0.00	0.0	5.959	0.000	0	0	0	37
419	OCR-419	A	102-#1/0 A	7.16Y	119.3	0.38	6.68	23.11	10	162	36	98	0.42	0.3	6.659	0.700	161	36	37	37
418	420	ABC	098-#3/0 A	7.16Y	119.4	0.30	6.60	35.17	12	738	173	97	1.52	0.2	6.527	0.567	118	32	24	172
OCR-417	418	ABC	007- 50-H	7.16Y	119.4	0.00	6.60	29.48	59	618	139	98	0.00	0.0	6.527	0.000	0	0	0	148
417	OCR-417	ABC	098-#3/0 A	7.16Y	119.3	0.15	6.75	29.48	10	618	139	98	0.65	0.1	6.869	0.343	63	14	11	148
416	417	ABC	098-#3/0 A	7.15Y	119.1	0.17	6.91	8.59	3	180	40	98	0.21	0.1	8.183	1.314	180	40	43	43
415	417	ABC	098-#3/0 A	7.14Y	119.1	0.17	6.92	17.88	6	374	84	98	0.46	0.1	7.530	0.660	61	13	13	94
521	415	ABC	098-#3/0 A	7.13Y	118.8	0.25	7.17	11.70	4	245	55	98	0.43	0.2	8.979	1.449	244	54	56	56
FUSE-519	415	A	083-30N FU	7.14Y	119.1	0.00	6.92	9.84	16	69	15	98	0.00	0.0	7.530	0.000	0	0	0	25
519	FUSE-519	A	117-																	

Balanced Voltage Drop Report
Source: 8800

Detail

Database: C:\MELSOFT\DATA\ORIGINAL FROM POB\DPOE2.WM

Title:

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Case:

		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
411	OCR-411	A	117-#6 A-C	7.15Y	119.1	2.09	6.88	21.48	15	152	35	97	2.44	1.6	7.184	2.157	150	33	35	35
1348	704	B	106-#2 ACS	7.28Y	121.3	0.05	4.72	33.56	19	238	54	98	0.08	0.0	5.004	0.044	0	0	0	44
C OCR-1349	1348	B	006- 35-H	7.28Y	121.3	0.00	4.72	33.56	96	238	54	98	0.00	0.0	5.004	0.000	0	0	0	44 C
1349	OCR-1349	B	106-#2 ACS	7.23Y	120.5	0.75	5.46	33.56	19	238	54	98	1.29	0.5	5.703	0.699	29	6	4	44
1350	1349	B	106-#2 ACS	7.20Y	120.0	0.50	5.96	29.45	16	208	46	98	0.76	0.4	6.234	0.530	69	15	15	40
1351	1350	B	106-#2 ACS	7.19Y	119.9	0.14	6.09	19.62	11	138	31	98	0.14	0.1	6.452	0.219	138	30	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	10008	0	0	0	0	0	279	0.00	10287	Lowest Voltage = 116.99 on Element 487		
KVAR	2632	0	0	0	0	0	272		2904	Max Accm VoltD = 9.01 on Element 487		
										Max Elem VoltD = 3.23 on Element 394		

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Balanced Voltage Drop Report
Source: 8400

Detail

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
8400	Feeder NO. 3	ABC	SRC-8400-D	7.56Y	126.0	0.00	0.00	184.97	0	3960	1385	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	53.42	0	1150	380	95	0.00	0.0	0.000	0.000	0	0	0	371
293	8403	ABC	098-#3/0 A	7.51Y	125.2	0.76	0.76	53.42	18	1150	380	95	5.52	0.5	0.931	0.931	60	17	22	371
OCR-292	293	C	006-35-H	7.51Y	125.2	0.00	0.76	11.61	33	84	24	96	0.00	0.0	0.931	0.000	0	0	0	43
292	OCR-292	C	117-#6 A-C	7.48Y	124.6	0.64	1.40	11.61	8	84	24	96	0.26	0.3	3.331	2.400	84	24	43	43
291	293	ABC	098-#3/0 A	7.41Y	123.5	1.77	2.53	46.78	16	1001	332	95	10.94	1.1	3.546	2.615	134	66	24	306
OCR-290	291	C	006-35-H	7.41Y	123.5	0.00	2.53	8.23	24	59	17	96	0.00	0.0	3.546	0.000	0	0	0	28
290	OCR-290	C	106-#2 ACS	7.39Y	123.2	0.22	2.75	8.23	5	59	17	96	0.06	0.1	5.205	1.659	59	17	28	28
289	291	ABC	098-#3/0 A	7.39Y	123.1	0.36	2.88	37.41	12	797	236	96	1.84	0.2	4.179	0.633	41	12	12	254
OCR-288	289	B	007-50-H	7.39Y	123.1	0.00	2.88	25.14	50	178	52	96	0.00	0.0	4.179	0.000	0	0	0	73
288	OCR-288	B	110-#4 ACS	7.36Y	122.6	0.49	3.38	25.14	18	178	52	96	0.38	0.2	5.869	1.690	107	31	44	73
287	288	B	106-#2 ACS	7.35Y	122.4	0.19	3.57	6.76	4	48	14	96	0.06	0.1	6.953	1.084	18	5	4	18
FUSE-286	287	B	083-30N FU	7.35Y	122.4	0.00	3.57	0.00	0	0	0	0	0.00	0.0	6.953	0.000	0	0	0	0
P 286	FUSE-286	B	118-#8 A-C	7.35Y	122.4	0.00	3.57	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	7.35Y	122.4	0.00	3.57	4.16	4	29	9	96	0.00	0.0	6.953	0.000	0	0	0	14
284	OCR-284	B	117-#6 A-C	7.33Y	122.1	0.29	3.86	4.16	3	29	9	96	0.05	0.2	9.300	2.347	20	6	12	14
FUSE-283	284	B	083-30N FU	7.33Y	122.1	0.00	3.86	1.26	2	9	3	95	0.00	0.0	9.300	0.000	0	0	0	2
283	FUSE-283	B	118-#8 A-C	7.33Y	122.1	0.04	3.90	1.26	1	9	3	95	0.00	0.0	10.150	0.850	9	3	2	2
FUSE-780	288	B	083-30N FU	7.36Y	122.6	0.00	3.38	3.32	6	23	7	96	0.00	0.0	5.869	0.000	0	0	0	11
780	FUSE-780	B	110-#4 ACS	7.35Y	122.5	0.08	3.46	3.32	2	23	7	96	0.01	0.0	8.762	2.893	23	7	11	11
OCR-282	289	ABC	007-50-H	7.39Y	123.1	0.00	2.88	27.11	54	576	170	96	0.00	0.0	4.179	0.000	0	0	0	169
282	OCR-282	ABC	098-#3/0 A	7.33Y	122.2	0.88	3.76	27.11	9	576	170	96	3.04	0.5	6.649	2.470	167	48	59	169
280	282	ABC	098-#3/0 A	7.33Y	122.2	0.07	3.83	19.25	6	406	119	96	0.19	0.0	6.888	0.238	6	2	2	110
FUSE-278	280	ABC	083-30N FU	7.33Y	122.2	0.00	3.83	14.93	25	315	92	96	0.00	0.0	6.888	0.000	0	0	0	76
278	FUSE-278	ABC	098-#3/0 A	7.31Y	121.9	0.31	4.15	14.93	5	315	92	96	0.61	0.2	8.397	1.510	66	19	12	76
OCR-277	278	B	006-35-H	7.31Y	121.9	0.00	4.15	15.92	45	112	33	96	0.00	0.0	8.397	0.000	0	0	0	22
277	OCR-277	B	106-#2 ACS	7.28Y	121.3	0.56	4.71	15.92	9	112	33	96	0.41	0.4	9.651	1.254	31	9	6	22
4961	277	B	106-#2 ACS	7.27Y	121.2	0.12	4.83	7.53	4	53	15	96	0.03	0.1	10.626	0.975	53	15	9	9
FUSE-740	277	B	083-30N FU	7.28Y	121.3	0.00	4.71	3.99	7	28	8	96	0.00	0.0	9.651	0.000	0	0	0	7
740	FUSE-740	B	118-#8 A-C	7.27Y	121.1	0.17	4.88	3.99	4	28	8	96	0.02	0.1	10.913	1.262	28	8	7	7
276	278	ABC	098-#3/0 A	7.31Y	121.8	0.01	4.16	2.15	1	45	13	96	0.00	0.0	9.296	0.899	45	13	11	11
1279	278	C	106-#2 ACS	7.31Y	121.8	0.05	4.19	13.08	7	92	27	96	0.03	0.0	8.506	0.109	0	0	0	31
OCR-279	1279	C	006-35-H	7.31Y	121.8	0.00	4.19	13.08	37	92	27	96	0.00	0.0	8.506	0.000	0	0	0	31
279	OCR-279	C	106-#2 ACS	7.28Y	121.3	0.53	4.72	13.08	7	92	27	96	0.23	0.3	10.995	2.489	92	26	31	31
OCR-4960	280	B	006-35-H	7.33Y	122.2	0.00	3.83	12.11	35	85	25	96	0.00	0.0	6.888	0.000	0	0	0	32
4960	OCR-4960	B	106-#2 ACS	7.31Y	121.9	0.29	4.13	12.11	7	85	25	96	0.12	0.1	8.354	1.466	85	25	32	32
Feeder NO. 2 Beginning with Node Element 8402																				
8402	8400	ABC	Node	7.56Y	126.0	0.00	0.00	76.54	0	1648	545	95	0.00	0.0	0.000	0.000	0	0	0	443
312	8402	ABC	098-#3/0 A	7.41Y	123.5	2.52	2.52	76.54	26	1648	545	95	25.71	1.6	2.212	2.212	183	33	66	443
4043	312	ABC	098-#3/0 A	7.36Y	122.7	0.81	3.33	63.20	21	1327	462	94	6.94	0.5	3.040	0.828	58	11	9	335
311	4043	ABC	098-#3/0 A	7.30Y	121.7	0.99	4.32	60.58	20	1262	443	94	8.05	0.6	4.094	1.055	68	12	15	326
4044	311	C	118-#8 A-C	7.29Y	121.5	0.16	4.47	11.06	11	79	15	98	0.10	0.1	4.317	0.223	4	1	1	19
OCR-4045	4044	C	049-100-63	7.29Y	121.5	0.00	4.47	10.53	11	76	14	98	0.00	0.0	4.317	0.000	0	0	0	18
4045	OCR-4045	C	106-#2 ACS	7.28Y	121.3	0.20	4.67	10.53	6	76	14	98	0.07	0.1	5.524	1.207	75	14	18	18
4042	311	ABC	098-#3/0 A	7.29Y	121.5	0.17	4.49	53.84	18	1107	407	94	1.23	0.1	4.291	0.197	14	3	3	292
C OCR-310	4042	ABC	010-50-L	7.29Y	121.5	0.00	4.49	53.20	106	1092	403	94	0.00	0.0	4.291	0.000	0	0	0	289
310	OCR-310	ABC	098-#3/0 A	7.22Y	120.4	1.12	5.60	53.20	18	1092	403	94	6.96	0.6	6.021	1.730	432	270	67	289
4072	310	ABC	098-#3/0 A	7.22Y	120.3	0.13	5.73	26.88	9	572	110	98	0.51	0.1	6.371	0.350	53	10	15	188
4066	4072	ABC	098-#3/0 A	7.22Y	120.3	0.00	5.73	1.55	1	33	6	98	0.00	0.0	6.534	0.162	33	6	4	4
309	4072	ABC	098-#3/0 A	7.21Y	120.2	0.11	5.84	22.84	8	485	94	98	0.34	0.1	6.747	0.375	119	22	32	169
OCR-308	309	C	005-25-H	7.21Y	120.2	0.00	5.84	9.92	40	70	13	98	0.00	0.0	6.747	0.000	0	0	0	32
308	OCR-308	C	106-#2 ACS	7.19Y	119.9	0.29	6.13	9.92	6	70	13	98	0.10	0.1	8.613	1.866	70	13	32	32
307	309	ABC	098-#3/0 A	7.20Y	119.9	0.22	6.06	10.91	4	231	47	98	0.28	0.1	8.865	2.119	158	33	57	77
OCR-306	307	A	005-25-H	7.20Y	119.9	0.00	6.06	10.24	41	72	13	98	0.00	0.0	8.865	0.000	0	0	0	20
306	OCR-306	A	106-#2 ACS	7.19Y	119.8	0.19	6.25	10.24	6	72	13	98	0.09	0.1	9.560	0.695	22	4	8	20
2306	306	A	106-#2 ACS	7.18Y	119.7	0.01	6.26	1.90	1	13	2	99	0.00	0.0	10.065	0.505	13	2	2	2
1306	306	A	106-#2 ACS	7.18Y	119.7	0.08	6.32	5.21	3	37	7	98	0.01	0.0	10.514	0.955	37	7	10	10
FUSE-739	309	A	083-30N FU	7.21Y	120.2	0.00	5.84	9.12	15	65	12	98	0.00	0.0	6.747	0.000	0	0	0	28
739	FUSE-739	A	118-#8 A-C	7.18Y	119.6	0.56	6.40	9.12	9	65	12	98	0.19	0.3	8.612	1.865				

Balanced Voltage Drop Report
Source: 8400

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

Title:

Case:

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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	kW	% Loss	mi From Src	Length (mi)	-----Element-----			
							Accum Drop	Thru Amps	% Cap	Thru KW	Thru KVAR							Cons On	Cons Thru	Cons On	Cons Thru
303	OCR-303	B	117-#6 A-C	7.34Y	122.3	0.58	3.68	10.40	7	77	3	100	0.31	0.4	5.423	1.646	28	1	14	49	
302	303	B	117-#6 A-C	7.33Y	122.1	0.22	3.91	3.47	2	25	1	100	0.03	0.1	8.470	3.047	25	1	16	16	
301	303	B	117-#6 A-C	7.32Y	122.1	0.23	3.92	3.11	2	23	1	100	0.03	0.1	9.817	3.595	23	1	19	19	
OCR-736	305	A	006- 35-H	7.45Y	124.2	0.00	1.82	5.21	15	39	2	100	0.00	0.0	2.094	0.000	0	0	0	25	
736	OCR-736	A	117-#6 A-C	7.44Y	123.9	0.25	2.07	5.21	4	39	2	100	0.05	0.1	4.424	2.330	39	2	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	3855	0	0	0	0	0	105	0.00	3960	Lowest Voltage =	119.60	on Element 739
KVAR	1269	0	0	0	0	0	116		1385	Max Accm VoltD =	6.40	on Element 739
										Max Elem VoltD =	2.52	on Element 312

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Balanced Voltage Drop Report
Source: 8300

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

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total	
KW	3659	0	0	0	0	0	93	0.00	3752	Lowest Voltage = 119.36 on Element 261
KVAR	668	0	0	0	0	0	101		769	Max Accm VoltD = 6.64 on Element 261
										Max Elem VoltD = 2.84 on Element 259

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Balanced Voltage Drop Report
Source: 8120

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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			
															From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
FUSE-956	868	A	085-50N FU	7.43Y	123.8	0.00	2.20	22.42	22	164	27	99	0.00	0.0	3.901	0.000	0	0	0	27
956	FUSE-956	A	106-#2 ACS	7.42Y	123.6	0.16	2.36	22.42	12	164	27	99	0.13	0.1	4.364	0.463	164	27	27	27
FUSE-883	868	A	085-50N FU	7.43Y	123.8	0.00	2.20	21.39	21	157	26	99	0.00	0.0	3.901	0.000	0	0	0	22
883	FUSE-883	A	106-#2 ACS	7.42Y	123.6	0.19	2.39	21.39	12	157	26	99	0.14	0.1	4.474	0.573	157	25	22	22
FUSE-881	868	B	084-40N FU	7.43Y	123.8	0.00	2.20	30.87	39	226	37	99	0.00	0.0	3.901	0.000	0	0	0	34
881	FUSE-881	B	106-#2 ACS	7.40Y	123.4	0.40	2.60	30.87	17	226	37	99	0.44	0.2	4.748	0.847	226	37	34	34
FUSE-870	868	C	085-50N FU	7.43Y	123.8	0.00	2.20	16.51	17	121	20	99	0.00	0.0	3.901	0.000	0	0	0	25
870	FUSE-870	C	110-#4 ACS	7.42Y	123.7	0.07	2.27	16.51	12	121	20	99	0.03	0.0	4.463	0.562	121	20	25	25
FUSE-869	868	C	083-30N FU	7.43Y	123.8	0.00	2.20	19.70	33	144	24	99	0.00	0.0	3.901	0.000	0	0	0	23
869	FUSE-869	C	106-#2 ACS	7.42Y	123.6	0.17	2.37	19.70	11	144	24	99	0.12	0.1	4.451	0.551	144	23	23	23
OCR-878	876	ABC	012-100-L	7.47Y	124.5	0.00	1.52	45.39	45	1003	166	99	0.00	0.0	2.884	0.000	0	0	0	153
878	OCR-878	ABC	090-336 AC	7.45Y	124.2	0.29	1.81	45.39	9	1003	166	99	1.32	0.1	4.491	1.606	735	120	123	153
FUSE-882	878	A	082-25N FU	7.45Y	124.2	0.00	1.61	17.30	35	127	21	99	0.00	0.0	4.491	0.000	0	0	0	15
882	FUSE-882	A	106-#2 ACS	7.44Y	124.0	0.16	1.97	17.30	10	127	21	99	0.10	0.1	5.092	0.602	127	21	15	15
FUSE-880	878	B	085-50N FU	7.45Y	124.2	0.00	1.61	18.98	19	140	23	99	0.00	0.0	4.491	0.000	0	0	0	15
880	FUSE-880	B	106-#2 ACS	7.44Y	124.0	0.15	1.96	18.98	11	140	23	99	0.10	0.1	5.021	0.530	140	23	15	15
FUSE-877	876	A	085-50N FU	7.47Y	124.5	0.00	1.52	16.08	16	118	19	99	0.00	0.0	2.884	0.000	0	0	0	18
877	FUSE-877	A	106-#2 ACS	7.45Y	124.2	0.24	1.76	16.08	9	118	19	99	0.14	0.1	3.873	0.989	118	19	18	18
FUSE-874	873	ABC	082-25N FU	7.25Y	120.9	0.00	5.12	19.55	39	420	69	99	0.00	0.0	1.830	0.000	0	0	0	65
874	FUSE-874	ABC	098-#3/O A	7.24Y	120.6	0.28	5.39	19.55	7	420	69	99	0.56	0.1	3.845	2.016	419	68	65	65
OCR-872	480	A	007- 50-H	7.28Y	121.4	0.00	4.59	24.66	49	177	29	99	0.00	0.0	1.610	0.000	0	0	0	33
872	OCR-872	A	106-#2 ACS	7.26Y	121.0	0.44	5.03	24.66	14	177	29	99	0.39	0.2	2.777	1.167	177	29	33	33
OCR-871	480	C	061-50-4H	7.28Y	121.4	0.00	4.59	21.50	43	155	25	99	0.00	0.0	1.610	0.000	0	0	0	33
871	OCR-871	C	106-#2 ACS	7.26Y	121.0	0.41	5.00	21.50	12	155	25	99	0.31	0.2	2.853	1.244	154	25	33	33
FUSE-573	8120	ABC	082-25N FU	7.56Y	126.0	0.00	0.00	30.29	61	673	137	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	30.29	0	673	137	98	0.00	0.0	0.000	0.000	0	0	0	153
573	8122	ABC	098-#3/O A	7.50Y	124.9	1.08	1.08	30.29	10	673	137	98	3.62	0.5	4.016	4.016	521	103	125	153
FUSE-860	573	B	082-25N FU	7.50Y	124.9	0.00	1.08	20.25	41	149	30	98	0.00	0.0	4.016	0.000	0	0	0	28
860	FUSE-860	B	117-#6 A-C	7.47Y	124.5	0.42	1.50	20.25	14	149	30	98	0.31	0.2	4.949	0.933	149	29	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	11059	0	0	0	0	0	342	0.00	11401	Lowest Voltage = 119.02 on Element 578		
KVAR	1955	0	0	0	0	0	371		2326	Max Accm VoltD = 6.98 on Element 578		
										Max Elem VoltD = 4.59 on Element 480		

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Balanced Voltage Drop Report
Source: 8100

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

Title:

Case:

		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
20	8101	ABC	090-336 AC	7.45Y	124.1	1.90	1.90	123.03	23	2580	1062	92	22.82	0.9	1.953	1.953	224	102	75	615
855	20	ABC	098-#3/0 A	7.44Y	124.0	0.05	1.95	98.42	33	2025	855	92	0.67	0.0	1.985	0.032	12	2	2	282
777	855	ABC	Capacitor	7.44Y	124.0	0.00	1.95	97.90	0	2013	853	92	0.00	0.0	1.985	0.000	0	0	0	280
4014	777	ABC	098-#3/0 A	7.42Y	123.7	0.37	2.32	103.61	35	2013	1141	87	4.82	0.2	2.193	0.208	19	3	4	280
C OCR-19	4014	ABC	012-100-L	7.42Y	123.7	0.00	2.32	102.82	103	1989	1133	87	0.00	0.0	2.193	0.000	0	0	0	276 C
19	OCR-19	ABC	090-336 AC	7.39Y	123.1	0.54	2.86	102.82	19	1989	1133	87	4.70	0.2	2.804	0.610	293	189	2	276
18	19	ABC	098-#3/0 A	7.38Y	122.9	0.22	3.08	82.78	28	1589	918	87	1.62	0.1	3.072	0.269	1275	870	12	200
OCR-4108	18	ABC	011-70-L	7.38Y	122.9	0.00	3.08	14.26	20	312	45	99	0.00	0.0	3.072	0.000	0	0	0	188
4108	OCR-4108	ABC	098-#3/0 A	7.37Y	122.8	0.16	3.24	14.26	5	312	45	99	0.36	0.1	3.915	0.842	13	2	6	188
OCR-542	4108	ABC	011-70-L	7.37Y	122.8	0.00	3.24	13.66	20	299	43	99	0.00	0.0	3.915	0.000	0	0	0	182
542	OCR-542	ABC	098-#3/0 A	7.35Y	122.5	0.24	3.49	13.66	5	299	43	99	0.48	0.2	5.379	1.464	71	10	47	182
OCR-14	542	ABC	010-50-L	7.35Y	122.5	0.00	3.49	10.39	21	227	32	99	0.00	0.0	5.379	0.000	0	0	0	135
14	OCR-14	ABC	098-#3/0 A	7.34Y	122.3	0.20	3.69	10.39	3	227	32	99	0.31	0.1	6.916	1.537	36	5	18	135
4025	14	ABC	106-#2 ACS	7.33Y	122.2	0.11	3.79	8.73	5	190	27	99	0.15	0.1	7.398	0.482	3	0	2	117
OCR-13	4025	C	005-25-H	7.33Y	122.2	0.00	3.79	10.13	41	74	10	99	0.00	0.0	7.398	0.000	0	0	0	53
13	OCR-13	C	117-#6 A-C	7.30Y	121.7	0.46	4.25	10.13	7	74	10	99	0.17	0.2	9.465	2.067	73	10	53	53
12	4025	ABC	098-#3/0 A	7.33Y	122.1	0.06	3.86	5.20	2	113	16	99	0.05	0.0	8.380	0.981	21	3	7	62
OCR-11	12	A	005-25-H	7.33Y	122.1	0.00	3.86	5.39	22	39	6	99	0.00	0.0	8.380	0.000	0	0	0	20
11	OCR-11	A	118-#8 A-C	7.30Y	121.7	0.40	4.26	5.39	5	39	6	99	0.08	0.2	10.645	2.265	39	5	20	20
6	12	ABC	098-#3/0 A	7.33Y	122.1	0.02	3.88	2.43	1	53	7	99	0.00	0.0	9.488	1.108	53	7	35	35
OCR-17	19	A	007-50-H	7.39Y	123.1	0.00	2.86	14.06	28	103	15	99	0.00	0.0	2.804	0.000	0	0	0	74
17	OCR-17	A	106-#2 ACS	7.35Y	122.6	0.57	3.43	14.06	8	103	15	99	0.40	0.4	4.330	1.527	25	4	21	74
16	17	A	106-#2 ACS	7.32Y	122.1	0.51	3.94	10.62	6	77	11	99	0.20	0.3	7.498	3.167	77	11	53	53
FUSE-767	20	A	083-30N FV	7.45Y	124.1	0.00	1.90	8.82	15	65	9	99	0.00	0.0	1.953	0.000	0	0	0	45
767	FUSE-767	A	117-#6 A-C	7.44Y	123.9	0.17	2.07	8.82	6	65	9	99	0.05	0.1	2.817	0.864	65	9	45	45
766	20	ABC	106-#2 ACS	7.44Y	124.0	0.07	1.97	11.05	6	243	43	98	0.08	0.0	2.429	0.476	243	43	213	213

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	GensMotors	Loops&Metas	Losses	No Load	Losses	Total		
7202	0	0	0	0	0	0	215	0.00	7417	Lowest Voltage = 117.93 on Element 41		
2916	0	-1181	0	0	0	0	244	1979	Max Accm VoltD = 8.07 on Element 41			
										Max Elem VoltD = 4.20 on Element 492		

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Balanced Voltage Drop Report
Source: 8110

Database: C:\MILSOFT\DATA\ORIGINAL FROM POE\WINTER 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	% PF	kW Loss	% Loss	mi		Element			
															From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
FUSE-218	219	A	082-25N FU	7.24Y	120.7	0.00	5.29	31.01	62	223	27	99	0.00	0.0	5.244	0.000	0	0	0	48
218	FUSE-218	A	118-#8 A-C	7.19Y	119.8	0.89	6.18	31.01	31	223	27	99	1.05	0.5	6.025	0.881	222	27	48	48
217	219	ABC	116-4-ACWC	7.24Y	120.6	0.11	5.41	8.25	5	178	21	99	0.10	0.1	6.234	1.091	178	21	35	35
C OCR-230	227	A	006- 35-H	7.52Y	125.3	0.00	0.65	58.15	166	434	57	99	0.00	0.0	0.288	0.000	0	0	0	85 C
230	OCR-230	A	106-#2 ACS	7.43Y	123.9	1.44	2.09	58.15	32	434	57	99	4.31	1.0	1.188	0.899	74	9	13	85
229	230	A	106-#2 ACS	7.33Y	122.2	1.70	3.79	29.19	16	215	28	99	2.47	1.1	3.441	2.254	59	7	20	54
FUSE-239	229	A	081-20N FU	7.33Y	122.2	0.00	3.79	13.19	33	96	12	99	0.00	0.0	3.441	0.000	0	0	0	22
239	FUSE-239	A	106-#2 ACS	7.31Y	121.9	0.30	4.09	13.19	7	96	12	99	0.14	0.1	4.947	1.506	96	12	22	22
236	229	A	106-#2 ACS	7.32Y	122.1	0.15	3.94	7.93	4	58	7	99	0.04	0.1	4.709	1.267	58	7	12	12
FUSE-228	230	A	081-20N FU	7.43Y	123.9	0.00	2.09	19.04	48	140	17	99	0.00	0.0	1.188	0.000	0	0	0	18
228	FUSE-228	A	106-#2 ACS	7.41Y	123.5	0.39	2.48	19.04	11	140	17	99	0.32	0.2	2.183	0.995	87	10	11	18
710	228	A	106-#2 ACS	7.40Y	123.3	0.19	2.68	7.22	4	53	6	99	0.05	0.1	3.981	1.798	53	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	GenMotors	Loops	Metas	Losses	No Load	Losses	Total			
KW	5957	0	0	0	0	0	0	212		0.00	6169	Lowest Voltage =	117.78	on Element 254
KVAR	696	0	0	0	0	0	0	207			903	Max Accm VoltD =	8.22	on Element 254
												Max Elem VoltD =	3.34	on Element 224

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**Meade County Rural Electric Cooperative Corporation
PSC Case Number: 2005-00522
First Data Request of Commission Staff**

Item 2. Provide copies of the Rural Utilities Service ("RUS") Form 740c that is associated with the pending 3-year work plan.

Response:

Meade County RECC has not formalized the loan process with RUS.

The Form 740c will be forwarded to the PSC once the loan has been formalized and the document has been prepared by the RUS field representative.

Witness: Burns Mercer

**Meade County Rural Electric Cooperative Corporation
PSC Case Number: 2005-00522
First Data Request of Commission Staff**

Item 3: Refer to page 3 of the application. Meade County RECC States that 100 percent of this work plan will be financed through RUS. Traditionally, work plans have been financed with 70 percent of the funding through RUS and the remaining 30 percent of the funding through a supplemental lender. Explain why Meade County RECC has decided to use 100 percent RUS financing for this work plan. Include with this explanation a discussion of the financing options available to Meade County RECC and what qualifications Meade County had to meet to utilize 100 percent RUS financing.

Response:

The last work plan Meade County financed with 70 percent funding through RUS and 30 percent through a supplemental lender was the 1996 - 1999 work plan. The 100 percent RUS financing option was implemented sometime after the 1996 - 1999 work plan was approved, since that time we have been a 100 percent RUS borrower.

Financing at 100 percent is available through RUS to all borrowers with no special qualifications required to obtain financing.

An examination of the interest rates available from RUS and Cooperative Finance Corporation (supplemental lender) on the date of this response demonstrates the reason Meade County would choose to use RUS financing over the supplemental lender. For instance, a 30 year fixed rate through RUS is available at 4.53 percent. (RUS rates attached as page 2 and 3 of this exhibit.) CFC's rate on the same day for a 30 year rate is 6.85 percent. (CFC rates attached as page 4, 5 and 6 of this exhibit.) The result is that the 100 percent RUS rate is the low cost option.

Witness: Burns Mercer



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Rural Electrification Loan Interest Rates

[Hardship Loan Rates - 5%](#)
[Municipal Loan Rates \(Capped and Uncapped\)](#)
[Treasury Loan Rates](#)
[FFB Guaranteed Loans](#)

Information on these loan programs can be found on the [Loans](#) page.

Hardship Loan Rate

On November 1, 1993, the Rural Electrification Loan Restructuring Act, Pub. L. 103-129, 107 Stat. 1356, (RELRA) amended the Rural Electrification Act of 1936, 7 U.S.C. 901 et seq., (RE Act) to establish a new interest rate structure for insured electric loans. Insured electric loans approved on or after this date, are either municipal rate loans or hardship rate loans. Borrowers meeting the criteria set forth in §1714.8 are eligible for 5 percent hardship rate loans.

Municipal Interest Rates for the 1st Quarter of CY 2006

In accordance with 7 CFR 1714.5, the interest rates are established as shown in the following table for all interest rate terms that begin at any time during the first quarter of calendar year 2006.

Interest Rate Term Ends in (Year....)	RUS Rate (0.000 percent)
2027 or later	4.500
2026	4.500
2025	4.375
2024	4.375
2023	4.375
2022	4.375

2021	4.250
2020	4.250
2019	4.250
2018	4.125
2017	4.125
2016	4.125
2015	4.000
2014	3.875
2013	3.875
2012	3.750
2011	3.625
2010	3.500
2009	3.500
2008	3.375
2007	3.250

Treasury and Federal Financing Bank (FFB) Rates

The following list of interest rates for loans shall not constitute an offer or commitment to make a loan at these rates. The interest rates listed are illustrative only of the rates that would apply to funds advanced on the date identified here as the "Issue Date." These rates change daily.

ISSUE DATE: 01/25/06

01/24/06 TREASURY YIELD CURVE SEMIANNUAL RATES

3-mo	6-mo	1-yr	2-yr	3-yr	5-yr	7-yr	10-yr	20-yr	30-yr
4.40	4.51	4.46	4.37	4.33	4.32	4.34	4.40	4.63	4.53

APPROXIMATE FFB QUARTERLY RATES*

3-mo	6-mo	1-yr	2-yr	3-yr	5-yr	7-yr	10-yr	20-yr	30-yr
4.40	4.47	4.42	4.33	4.31	4.30	4.32	4.37	4.55	4.53

*These approximate FFB rates are based upon a common type of RUS loan in which the quarterly loan payments are derived by amortizing over 30 years, but the loan matures with a balloon payment at the maturity indicated in the column heading (for example, 10 years). The column headings are approximate maturity terms, since the loans end on quarterly payment dates.

Treasury rate loans are not available for terms less than one year.

For information as to available "Call Options" and their associated pricing spreads, please contact the Electric Program directly (Southern Regional Division, Northern Regional Division, Power Supply Division).

To obtain the latest Federal Reserve Statistical Release of daily interest rates, you may use this link to go to the Federal Reserve Bank, where that information is available. Historical rates are available on our Historical



National Rural Utilities
Cooperative Finance Corporation



You Are Here: Extranet Home > Interest Rates

NRUCFC Home

Rates

01/25/2006

Bank Prime Rate on 01/25/2006 is 7.250%

Click on the blue triangle ▾ to the left of the Rate type you are interested in to expand/collapse the section

CFC sets its interest rates as low as possible. That's part of our commitment to our members. We publish CFC rates as stated rates not as effective rates. To find out what your effective CFC rate might be, contact your Associate VP in Herndon at 1-800-424-2954.

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▾ **Long-Term Fixed Rates-1yr 6.4%-5yr 6.45%-10yr 6.5%**

Long-Term Fixed Rates For *01/25/2006*

1yr	6.400%	7yr	6.450%	13yr	6.600%	19yr	6.750%	25yr	6.800%
2yr	6.400%	8yr	6.450%	14yr	6.650%	20yr	6.750%	26yr	6.800%
3yr	6.400%	9yr	6.500%	15yr	6.700%	21yr	6.800%	27yr	6.850%
4yr	6.400%	10yr	6.500%	16yr	6.750%	22yr	6.800%	28yr	6.850%
5yr	6.450%	11yr	6.550%	17yr	6.750%	23yr	6.800%	29yr	6.850%
6yr	6.450%	12yr	6.550%	18yr	6.750%	24yr	6.800%	30yr	6.850%

▾ **Variable Rates**

Variable Rates Effective *01/01/2006*

Long-Term Variable Rate:	6.350%
Line of Credit:	6.200%
Intermediate:	6.200%
Associate Member (5% Loan CTCs):	6.650%
Associate Member (10% Loan CTCs):	6.350%

▼ **RUS Guaranteed Fixed Rates**

For the latest on RUS Guaranteed Fixed Rates, please call your AVP in Herndon at 1-800-424-2954.

▼ **RUS Municipal Loan Rates**

Rates for *Jan 1, 2006 - Mar 31, 2006*

Year Interest Term Ends	Interest Rate	Year Interest Term Ends	Interest Rate	Year Interest Term Ends	Interest Rate
2007	3.250%	2014	3.875%	2021	4.250%
2008	3.375%	2015	4.000%	2022	4.375%
2009	3.500%	2016	4.125%	2023	4.375%
2010	3.500%	2017	4.125%	2024	4.375%
2011	3.625%	2018	4.125%	2025	4.375%
2012	3.750%	2019	4.250%	2026	4.500%
2013	3.875%	2020	4.250%	2027 or later	4.500%

▼ **CFC Daily Fund Rate for**

CFC Daily Fund Rate for *01/25/2006*

Daily Fund Rate:	4.350%
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▼ **CFC Commercial Paper Investment Rates**

CFC Commercial Paper Investment Rates For *01/25/2006*

Days	Rate	Days	Rate
1-5	4.325%	90-119	4.625%
6-14	4.375%	120-149	4.650%
15-20	4.450%	150-179	4.700%
21-45	4.525%	180-209	4.750%
46-89	4.575%	210-270	4.750%

***To Invest in CFC Commercial Paper
call: 1-800-424-2955***

*Please note that these rates change during the day.
For the current commercial paper rate information,
please call 1-800-424-2955.*

▼ **CFC Medium -Term Notes Investment Rates**

CFC Medium - Term Notes Investment Rates For *01/25/2006*

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Months	Rate	Months	Rate	Months	Rate
10	4.900%	15	4.920%	20	4.930%
11	4.910%	16	4.920%	21	4.930%
12	4.920%	17	4.930%	22	4.930%
13	4.920%	18	4.930%	23	4.930%
14	4.920%	19	4.930%	24	4.930%

To Invest in CFC MTNs call: 1-703-709-6731

Please note that these rates are for investments made today, but will become effective three (3) business days from today, which will become the MTN settlement date.

▼ **FFB Rates**

Rates for *01/16/2006 - 01/20/2006*

Date	1-Year	2-Year	3-Year	5-Year	7-Year	30-Year
Monday	%	%	%	%	%	%
Tuesday	4.380%	4.300%	4.260%	4.250%	4.270%	4.480%
Wednesday	4.380%	4.300%	4.260%	4.250%	4.270%	4.480%
Thursday	4.400%	4.330%	4.300%	4.290%	4.300%	4.510%
Friday	4.400%	4.330%	4.300%	4.280%	4.300%	4.500%

Contact your local RUS General Field Representative for the latest rates.

▼ **Treasury Rates**

Rates for the Week Ending *01/20/2006*

1 Year	2 Year	3 Year	5 Year	7 Year	10 year	20 Year	30 Year
4.430%	4.350%	4.300%	4.290%	4.310%	4.360%	4.590%	%

NOTICE

Fixed Rates for Class A members are quoted each business day. These rates are for selected maturities and are available for loans advanced, repriced, or converted today. These rates do not include discounts. Call the CFC Rate Line at 1-800-599-6782 for rate quotes, for other maturity periods, and for rate information any time during the month.

Variable rates are subject to change monthly or semi-monthly in accordance with the terms of the loan agreement.

Quoted Associate Member rates reflect the value of the different CTC investments related to the two loan types.

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