



Meade County RECC

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January 25, 2006

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Ms. Beth O'Donnell
Executive Director
Public Service Commission
211 Sower Boulevard
P. O. Box 615
Frankfort, KY 40602

Re: First Data Request of Commission Staff for Case Number. 2005-00522

Dear Ms. O'Donnell:

Enclosed is Meade County RECC's response to the Commission's data request in Case Number 2005-00522

Sincerely,

Burns E. Mercer
President / CEO

RECEIVED

JAN 27 2006

PUBLIC SERVICE
COMMISSION

RESPONSE TO FIRST DATA REQUEST
OF COMMISSION STAFF IN CASE
NUMBER 2005-00522
APPLICATION OF MEADE COUNTY
RURAL ELECTRIC COOPERATIVE
CORPORATION FOR A CERTIFICATE
OF CONVENIENCE AND NECESSITY

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

Item 1. Provide voltage drop studies associated with this 2005-2008 3-year construction work plan study.

Response:

Voltage drop studies and one compact disc included with this filing.

Witness: Tim Schroll

ANDYVILLE SUMMER BASE

Detail

Balanced Voltage Drop Report
Source: 8400

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

04/11/2005 13:35 Page 1

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	
8400		ABC	SRC-8400-D	7.56Y	126.0	0.00	0.00	155.28	0	3204	1461	91	0.00	0.0	0.000	0.000	0	0	0	1070
----- Feeder NO. 3 Beginning with Node Element 8403																				
8403	8400	ABC	Node	7.56Y	126.0	0.00	0.00	36.86	0	801	240	96	0.00	0.0	0.000	0.000	0	0	0	371
293	8403	ABC	098-#3/0 A	7.53Y	125.5	0.52	0.52	36.86	12	801	240	96	2.63	0.3	0.931	0.931	42	11	22	371
OCR-292	293	C	006-35-H	7.53Y	125.5	0.00	0.52	7.91	23	58	15	97	0.00	0.0	0.931	0.000	0	0	0	43
292	OCR-292	C	117-#6 A-C	7.50Y	125.1	0.43	0.95	7.91	6	58	15	97	0.12	0.2	3.331	2.400	58	15	43	43
291	293	ABC	098-#3/0 A	7.46Y	124.3	1.19	1.71	32.33	11	699	211	96	5.15	0.7	3.546	2.615	103	53	24	306
OCR-290	291	C	006-35-H	7.46Y	124.3	0.00	1.71	5.63	16	41	10	97	0.00	0.0	3.546	0.000	0	0	0	28
290	OCR-290	C	106-#2 ACS	7.45Y	124.1	0.15	1.86	5.63	3	41	10	97	0.03	0.1	5.205	1.659	41	10	28	28
289	291	ABC	098-#3/0 A	7.44Y	124.1	0.24	1.94	25.41	8	550	142	97	0.85	0.2	4.179	0.633	29	7	12	254
OCR-288	289	B	007-50-H	7.44Y	124.1	0.00	1.94	17.11	34	123	32	97	0.00	0.0	4.179	0.000	0	0	0	73
288	OCR-288	B	110-#4 ACS	7.42Y	123.7	0.32	2.26	17.11	12	123	32	97	0.18	0.1	5.869	1.690	74	19	44	73
287	288	B	106-#2 ACS	7.42Y	123.6	0.13	2.40	4.63	3	33	8	97	0.03	0.1	6.953	1.084	13	3	4	18
FUSE-286	287	B	083-30N FU	7.42Y	123.6	0.00	2.40	0.00	0	0	0	0	0.00	0.0	6.953	0.000	0	0	0	0
F 286	FUSE-286	B	118-#8 A-C	7.42Y	123.6	0.00	2.40	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	7.42Y	123.6	0.00	2.40	2.86	3	21	5	97	0.00	0.0	6.953	0.000	0	0	0	14
284	OCR-284	B	117-#6 A-C	7.40Y	123.4	0.20	2.59	2.86	2	21	5	97	0.02	0.1	9.300	2.347	14	4	12	14
FUSE-283	284	B	083-30N FU	7.40Y	123.4	0.00	2.59	0.85	1	6	2	95	0.00	0.0	9.300	0.000	0	0	0	2
283	FUSE-283	B	118-#8 A-C	7.40Y	123.4	0.02	2.62	0.85	1	6	2	95	0.00	0.0	10.150	0.850	6	2	2	2
FUSE-780	288	B	083-30N FU	7.42Y	123.7	0.00	2.26	2.25	4	16	4	97	0.00	0.0	5.869	0.000	0	0	0	11
780	FUSE-780	B	110-#4 ACS	7.42Y	123.7	0.05	2.32	2.25	2	16	4	97	0.00	0.0	8.762	2.893	16	4	11	11
OCR-282	289	ABC	007-50-H	7.44Y	124.1	0.00	1.94	18.39	37	398	103	97	0.00	0.0	4.179	0.000	0	0	0	169
282	OCR-282	ABC	098-#3/0 A	7.41Y	123.5	0.58	2.53	18.39	6	398	103	97	1.40	0.4	6.649	2.470	116	29	59	169
280	282	ABC	098-#3/0 A	7.41Y	123.4	0.05	2.57	13.00	4	280	71	97	0.09	0.0	6.888	0.238	4	1	2	110
FUSE-278	280	ABC	083-30N FU	7.41Y	123.4	0.00	2.57	10.09	17	217	55	97	0.00	0.0	6.888	0.000	0	0	0	76
278	FUSE-278	ABC	098-#3/0 A	7.39Y	123.2	0.20	2.78	10.09	3	217	55	97	0.28	0.1	8.397	1.510	45	11	12	76
OCR-277	278	B	006-35-H	7.39Y	123.2	0.00	2.78	10.74	31	77	20	97	0.00	0.0	8.397	0.000	0	0	0	22
277	OCR-277	B	106-#2 ACS	7.37Y	122.8	0.37	3.15	10.74	6	77	20	97	0.19	0.2	9.652	1.254	21	5	6	22
4961	277	B	106-#2 ACS	7.37Y	122.8	0.08	3.23	5.08	3	36	9	97	0.01	0.0	10.626	0.975	36	9	9	9
FUSE-740	277	B	083-30N FU	7.37Y	122.8	0.00	3.15	2.69	4	19	5	97	0.00	0.0	9.651	0.000	0	0	0	7
740	FUSE-740	B	118-#8 A-C	7.36Y	122.7	0.11	3.26	2.69	3	19	5	97	0.01	0.1	10.913	1.262	19	5	7	7
276	278	ABC	098-#3/0 A	7.39Y	123.2	0.01	2.79	1.45	0	31	8	97	0.00	0.0	9.296	0.899	31	8	11	11
1279	278	C	106-#2 ACS	7.39Y	123.2	0.03	2.81	8.84	5	63	16	97	0.01	0.0	8.506	0.109	0	0	0	31
OCR-279	1279	C	006-35-H	7.39Y	123.2	0.00	2.81	8.84	25	63	16	97	0.00	0.0	8.506	0.000	0	0	0	31
279	OCR-279	C	106-#2 ACS	7.37Y	122.8	0.35	3.16	8.84	5	63	16	97	0.11	0.2	10.995	2.489	63	16	31	31
OCR-4960	280	B	006-35-H	7.41Y	123.4	0.00	2.57	8.19	23	59	15	97	0.00	0.0	6.888	0.000	0	0	0	32
4960	OCR-4960	B	106-#2 ACS	7.39Y	123.2	0.19	2.76	8.19	5	59	15	97	0.05	0.1	8.354	1.466	59	15	32	32
----- Feeder NO. 2 Beginning with Node Element 8402																				
8402	8400	ABC	Node	7.56Y	126.0	0.00	0.00	58.96	0	1237	508	93	0.00	0.0	0.000	0.000	0	0	0	443
312	8402	ABC	098-#3/0 A	7.44Y	124.0	2.02	2.02	58.96	20	1237	508	93	15.33	1.2	2.212	2.212	132	33	66	443
4043	312	ABC	098-#3/0 A	7.40Y	123.3	0.66	2.68	49.21	16	1008	436	92	4.21	0.4	3.040	0.828	42	11	9	335
311	4043	ABC	098-#3/0 A	7.35Y	122.5	0.80	3.48	47.29	16	962	421	92	4.92	0.5	4.094	1.055	49	13	15	326
4044	311	C	118-#8 A-C	7.34Y	122.4	0.12	3.60	8.10	8	58	15	97	0.05	0.1	4.317	0.223	3	1	1	19
OCR-4045	4044	C	049-100-63	7.34Y	122.4	0.00	3.60	7.71	8	55	14	97	0.00	0.0	4.317	0.000	0	0	0	18
4045	OCR-4045	C	106-#2 ACS	7.34Y	122.3	0.15	3.75	7.71	4	55	14	97	0.04	0.1	5.524	1.207	55	14	18	18
4042	311	ABC	098-#3/0 A	7.34Y	122.4	0.14	3.62	42.36	14	850	388	91	0.76	0.1	4.291	0.197	10	3	3	292
C OCR-310	4042	ABC	010-50-L	7.34Y	122.4	0.00	3.62	41.90	84	839	385	91	0.00	0.0	4.291	0.000	0	0	0	289
310	OCR-310	ABC	098-#3/0 A	7.29Y	121.5	0.89	4.51	41.90	14	839	385	91	4.13	0.5	6.021	1.730	361	256	67	289
4072	310	ABC	098-#3/0 A	7.28Y	121.4	0.10	4.61	19.64	7	415	109	97	0.27	0.1	6.371	0.350	39	10	15	188
4066	4072	ABC	098-#3/0 A	7.28Y	121.4	0.00	4.61	1.13	0	24	6	97	0.00	0.0	6.534	0.162	24	6	4	4
309	4072	ABC	098-#3/0 A	7.28Y	121.3	0.08	4.69	16.69	6	353	93	97	0.18	0.1	6.747	0.375	86	22	32	169
OCR-308	309	C	005-25-H	7.28Y	121.3	0.00	4.69	7.24	29	51	13	97	0.00	0.0	6.747	0.000	0	0	0	32
308	OCR-308	C	106-#2 ACS	7.27Y	121.1	0.22	4.91	7.24	4	51	13	97	0.05	0.1	8.613	1.866	51	13	32	32
307	309	ABC	098-#3/0 A	7.27Y	121.1	0.17	4.86	8.02	3	169	46	96	0.15	0.1	8.865	2.119	116	33	57	77
OCR-306	307	A	005-25-H	7.27Y	121.1	0.00	4.86	7.47	30	53	13	97	0.00	0.0	8.865	0.000	0	0	0	20
306	OCR-306	A	106-#2 ACS	7.26Y	121.0	0.14	5.00	7.47	4	53	13	97	0.05	0.1	9.560	0.695	16	4	8	20
2306	306	A	106-#2 ACS	7.26Y	121.0	0.01	5.02	1.39	1	10	2	98	0.00	0.0	10.065	0.505	10	2	2	2
1306	306	A	106-#2 ACS	7.26Y	120.9	0.06	5.06	3.80	2	27	7	97	0.01	0.0	10.514	0.955	27	7	10	10
FUSE-739	309	A	083-30N FU	7.28Y	121.3	0.00	4.69	6.65	11	47	12	97	0.00	0.0	6.747	0.000	0	0	0	28
739	FUSE-739	A	118-#8 A-C	7.25Y	120.9	0.41	5.11	6.65	7	47	12	97	0.10	0.2	8.612	1.865	47	12		

Balanced Voltage Drop Report
Source: 8400

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	% PF	KW Loss	% Loss	mi From Src	Length (mi)	Element			
																	KW	KVAR	On	Thru
303	OCR-303	B	117-#6 A-C	7.30Y	121.7	0.69	4.30	11.35	8	81	21	97	0.37	0.5	5.423	1.646	30	7	14	49
302	303	B	117-#6 A-C	7.29Y	121.4	0.26	4.57	3.79	3	27	7	97	0.04	0.1	8.470	3.047	27	7	16	16
301	303	B	117-#6 A-C	7.29Y	121.4	0.28	4.58	3.39	2	24	6	97	0.03	0.1	9.017	3.595	24	6	19	19
OCR-736	305	A	006- 35-H	7.43Y	123.9	0.00	2.13	5.67	16	41	10	97	0.00	0.0	2.094	0.000	0	0	0	25
736	OCR-736	A	117-#6 A-C	7.41Y	123.6	0.30	2.43	5.67	4	41	10	97	0.06	0.1	4.424	2.330	41	10	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	3127	0	0	0	0	0	77	0.00	3204	Lowest Voltage = 120.58 on Element 4920
KVAR	1376	0	0	0	0	0	85		1461	Max Accm VoltD = 5.42 on Element 4920
										Max Elem VoltD = 2.13 on Element 305

2/8/28

BATTLE TOWN Summer Base

Balanced Voltage Drop Report
Source: 8500

Detail

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

04/11/2005 14:08 Page 1

		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
8500		ABC	SRC-8500-D	7.56Y	126.0	0.00	0.00	127.95	0	2801	760	97	0.00	0.0	0.000	0.000	0	0	0	455
Turtle cap	8500	ABC	Capacitor	7.56Y	126.0	0.00	0.00	127.95	0	2801	760	97	0.00	0.0	0.000	0.000	0	0	0	455
----- Feeder NO. 1 Beginning with Node Element 8501																				
8501	Turtle cap	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	2
FUSE-495	8501	ABC	085-50H FU	7.56Y	126.0	0.00	0.00	18.97	19	400	158	93	0.00	0.0	0.000	0.000	0	0	0	2
495	FUSE-495	ABC	098-#3/0 A	7.55Y	125.8	0.23	0.23	18.97	6	400	158	93	0.39	0.1	1.496	1.496	400	158	2	2
----- Feeder NO. 2 Beginning with Node Element 8502																				
8502	Turtle cap	ABC	Node	7.56Y	126.0	0.00	0.00	19.18	0	400	171	92	0.00	0.0	0.000	0.000	0	0	0	304
331	8502	ABC	098-#3/0 A	7.53Y	125.5	0.46	0.46	19.18	6	400	171	92	1.11	0.3	1.583	1.583	59	26	38	304
OCR-330	331	A	006- 35-H	7.53Y	125.5	0.00	0.46	5.01	14	37	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	0.23	0.69	5.01	3	37	6	99	0.04	0.1	4.603	3.020	37	6	57	57
329	331	ABC	098-#3/0 A	7.53Y	125.4	0.10	0.56	14.51	5	298	137	91	0.16	0.1	2.121	0.538	111	107	7	207
OCR-328	329	ABC	007- 50-H	7.53Y	125.4	0.00	0.56	2.77	6	62	10	99	0.00	0.0	2.121	0.000	0	0	0	59
328	OCR-328	ABC	098-#3/0 A	7.52Y	125.4	0.03	0.59	2.77	1	62	10	99	0.01	0.0	3.080	0.959	11	2	6	59
735	328	ABC	098-#3/0 A	7.52Y	125.4	0.03	0.62	2.27	1	51	8	99	0.01	0.0	4.424	1.343	21	3	21	53
334	735	ABC	098-#3/0 A	7.52Y	125.4	0.00	0.63	0.65	0	14	2	99	0.00	0.0	5.150	0.727	14	2	10	10
OCR-327	735	A	005- 25-H	7.52Y	125.4	0.00	0.62	2.06	8	15	2	99	0.00	0.0	4.424	0.000	0	0	0	22
327	OCR-327	A	118-#8 A-C	7.51Y	125.2	0.15	0.78	2.06	2	15	2	99	0.01	0.1	6.681	2.257	15	2	22	22
OCR-326	329	ABC	007- 50-H	7.53Y	125.4	0.00	0.56	5.00	11	125	20	99	0.00	0.0	2.121	0.000	0	0	0	142
326	OCR-326	ABC	098-#3/0 A	7.52Y	125.3	0.10	0.66	5.60	2	125	20	99	0.08	0.1	3.775	1.653	48	8	48	141
OCR-325	326	A	006- 35-H	7.52Y	125.3	0.00	0.66	3.37	10	25	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	0.10	0.77	3.37	2	25	4	99	0.01	0.1	5.800	2.026	25	4	31	31
324	326	ABC	098-#3/0 A	7.52Y	125.3	0.03	0.69	2.32	1	52	8	99	0.01	0.0	5.344	1.569	52	8	62	62
FUSE-333	331	C	083-30H FU	7.53Y	125.5	0.00	0.46	0.65	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	0.47	0.65	0	5	1	98	0.00	0.0	2.582	0.999	5	1	2	2
----- Feeder NO. 3 Beginning with Node Element 8503																				
8503	Turtle cap	ABC	Node	7.56Y	126.0	0.00	0.00	99.11	0	2000	1025	89	0.00	0.0	0.000	0.000	0	0	0	149
323	8503	ABC	098-#3/0 A	7.48Y	124.7	1.35	1.35	99.11	33	2000	1025	89	17.08	0.9	0.807	0.807	16	9	16	149
OCR-320	323	C	007- 50-H	7.48Y	124.7	0.00	1.35	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	1.35	0.00	0	0	0	0	0.00	0.0	3.381	2.573	0	0	0	0 P
4112	323	ABC	098-#3/0 A	7.39Y	123.1	1.57	2.91	98.27	33	1967	974	89	19.84	1.0	1.754	0.947	0	0	0	133
H 837	4112	ABC	Regulator	7.56Y	126.0	-2.91	-0.00	98.27	30	1947	974	89	0.00	0.0	1.754	0.000	0	0	0	133 H
322	837	ABC	098-#3/0 A	7.51Y	125.1	0.90	0.90	96.00	32	1947	974	89	11.07	0.6	2.309	0.555	6	4	4	133
OCR-321	322	ABC	007- 50-H	7.51Y	125.1	0.00	0.90	32.62	65	706	-202	-96	0.00	0.0	2.309	0.000	0	0	0	78
321	OCR-321	ABC	106-#2 ACS	7.45Y	124.1	1.00	1.89	32.62	18	706	-202	-96	7.44	1.1	4.004	1.695	25	14	20	78
OCR-317	321	B	007- 50-H	7.45Y	124.1	0.00	1.89	5.34	11	35	20	87	0.00	0.0	4.004	0.000	0	0	0	40
317	OCR-317	B	110-#4 ACS	7.44Y	123.9	0.18	2.07	5.34	4	35	20	87	0.03	0.1	6.012	2.008	14	8	13	40
316	317	B	110-#4 ACS	7.43Y	123.9	0.03	2.10	3.23	2	21	12	87	0.00	0.0	6.523	0.510	0	0	0	27
OCR-315	316	B	005- 25-H	7.43Y	123.9	0.00	2.10	3.23	13	21	12	87	0.00	0.0	6.523	0.000	0	0	0	27
315	OCR-315	B	110-#4 ACS	7.43Y	123.8	0.15	2.25	3.23	2	21	12	87	0.01	0.1	10.313	3.790	18	10	21	27
314	315	B	118-#8 A-C	7.42Y	123.7	0.02	2.26	0.52	1	3	2	83	0.00	0.0	11.250	0.938	3	2	6	6
4002	321	ABC	Capacitor	7.45Y	124.1	0.00	1.89	30.07	0	623	-250	-93	0.00	0.0	4.004	0.000	0	0	0	2
C OCR-839	4002	ABC	006- 35-H	7.45Y	124.1	0.00	1.89	39.17	112	623	614	71	0.00	0.0	4.004	0.000	0	0	0	2 C
P 839	OCR-839	ABC	098-#3/0 A	7.43Y	123.8	0.35	2.24	39.17	13	623	614	71	1.09	0.2	4.982	0.978	622	613	2	2 P
P 843	839	ABC	220-500 MC	7.43Y	123.8	0.00	2.24	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	124.1	0.00	1.89	2.45	7	16	9	87	0.00	0.0	4.004	0.000	0	0	0	16
840	OCR-840	B	106-#2 ACS	7.44Y	124.0	0.07	1.96	2.45	1	16	9	87	0.01	0.0	4.843	0.839	0	0	0	16
842	840	B	220-500 MC	7.44Y	124.0	0.00	1.97	2.03	1	13	7	88	0.00	0.0	4.994	0.151	0	0	0	12
FUSE-318	842	B	081-20H FU	7.44Y	124.0	0.00	1.97	2.03	5	13	7	88	0.00	0.0	4.994	0.000	0	0	0	12
318	FUSE-318	B	117-#6 A-C	7.44Y	123.9	0.09	2.05	2.03	1	13	7	88	0.01	0.0	6.763	1.769	13	7	12	12
OCR-841	840	B	049-100-63	7.44Y	124.0	0.00	1.96	0.41	0	3	2	83	0.00	0.0	4.843	0.000	0	0	0	4
841	OCR-841	B	117-#6 A-C	7.44Y	124.0	0.02	1.98	0.41	0	3	2	83	0.00	0.0	6.704	1.861	3	2	4	4
P 494	322	ABC	098-#3/0 A	7.36Y	122.7	2.44	3.34	74.90	25	1224	1161	73	21.87	1.8	4.129	1.820	23	13	28	51 P
P 4071	494	ABC	098-#3/0 A	7.30Y	121.6	1.06	4.39	73.74	25	1179	1123	72	9.32	0.8	4.924	0.795	12	7	8	23 P
OCR-294	4071	ABC	012-100-L	7.30Y	121.6	0.00	4.39	73.12	73	1157	1106	72	0.00	0.0	4.924	0.000	0	0	0	15
P 294	OCR-294	ABC	098-#3/0 A	7.18Y	119.7	1.86	6.25	73.12	24	1157	1106	72	15.39	1.3	6.458	1.534	187	186	11	15 P
P 4031	294	ABC	098-#3/0 A	7.16Y	119.3	0.41	6.67	60.95	20	955	903	73	2.98	0.3	6.840	0.381	37	32	2	4 P
P 835	4031	ABC	098-#3/0 A	7.15Y	119.2	0.11	6.78	58.68	20	915	867	73	0.54	0.1	7.056	0.217	914	867	2	2 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	2692	0	0	0	0	0	108	0.00		2801	Lowest Voltage = 119.22 on Element 835		
KVAR	2100	0	-1458	0	0	0	118			760	Max Accm VoltD = 6.78 on Element 835		
											Max Elem VoltD = 2.44 on Element 494		

Brandenburg Summer Base

Detail

Balanced Voltage Drop Report
Source: 8900

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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	
8900		ABC	SRC-8900-D	7.56Y	126.0	0.00	0.00	542.96	0	11080	5374	90	0.00	0.0	0.000	0.000	0	0	0	2507
----- Feeder NO. 6 Beginning with Node Element 8906																				
8906	8900	ABC	Node	7.56Y	126.0	0.00	0.00	102.00	0	2176	786	94	0.00	0.0	0.000	0.000	0	0	0	736
339	8906	ABC	098-#3/0 A	7.41Y	123.5	2.51	2.51	102.00	34	2176	786	94	34.79	1.6	1.557	1.557	27	8	12	736
700	339	ABC	098-#3/0 A	7.41Y	123.4	0.05	2.56	10.02	3	198	101	89	0.05	0.0	1.952	0.395	92	76	15	78
701	700	ABC	098-#3/0 A	7.41Y	123.4	0.01	2.57	4.92	2	107	25	97	0.01	0.0	2.286	0.334	107	25	63	63
522	339	ABC	090-336 AC	7.39Y	123.2	0.26	2.76	90.83	17	1916	638	95	2.49	0.1	1.920	0.363	4	1	1	646
338	522	ABC	098-#3/0 A	7.35Y	122.4	0.82	3.58	34.77	12	728	256	94	3.47	0.5	3.758	1.838	234	136	62	230
OCR-512	338	ABC	011-70-L	7.35Y	122.4	0.00	3.58	22.84	33	490	115	97	0.00	0.0	3.758	0.000	0	0	0	168
512	OCR-512	ABC	098-#3/0 A	7.33Y	122.1	0.29	3.87	22.84	8	490	115	97	0.94	0.2	4.663	0.905	52	12	15	168
337	512	ABC	098-#3/0 A	7.31Y	121.8	0.31	4.19	18.15	6	388	91	97	0.77	0.2	5.983	1.320	88	21	31	144
336	337	ABC	098-#3/0 A	7.30Y	121.7	0.10	4.29	7.37	2	157	37	97	0.10	0.1	7.064	1.081	47	11	16	59
335	336	C	106-#2 ACS	7.30Y	121.6	0.12	4.41	15.45	9	110	26	97	0.09	0.1	7.337	0.273	23	5	8	43
4095	335	C	106-#2 ACS	7.28Y	121.3	0.28	4.69	12.27	7	87	20	97	0.16	0.2	8.182	0.845	26	6	14	35
4096	4095	C	106-#2 ACS	7.27Y	121.2	0.09	4.78	8.55	5	61	14	97	0.04	0.1	8.574	0.392	16	4	5	21
4097	4096	C	106-#2 ACS	7.27Y	121.1	0.07	4.85	6.34	4	45	10	98	0.02	0.0	9.027	0.453	21	5	6	16
SECTZR-4098	4097	C	099-SECTIO	7.27Y	121.1	0.00	4.85	3.40	14	24	6	97	0.00	0.0	9.027	0.000	0	0	0	10
4098	SECTZR-4098	C	106-#2 ACS	7.27Y	121.1	0.01	4.87	3.40	2	24	6	97	0.00	0.0	9.163	0.136	0	0	0	10
4099	4098	C	106-#2 ACS	7.27Y	121.1	0.03	4.90	3.40	2	24	6	97	0.00	0.0	9.710	0.547	24	6	10	10
998	337	A	106-#2 ACS	7.29Y	121.6	0.24	4.43	9.74	5	69	16	97	0.08	0.1	7.552	1.569	69	16	27	27
FUSE-511	337	C	083-30M FU	7.31Y	121.8	0.00	4.19	10.17	17	72	17	97	0.00	0.0	5.983	0.000	0	0	0	27
511	FUSE-511	C	110-#4 ACS	7.31Y	121.8	0.05	4.24	10.17	7	72	17	97	0.01	0.0	6.616	0.633	72	17	27	27
FUSE-918	512	B	084-40M FU	7.33Y	122.1	0.00	3.87	6.98	9	50	12	97	0.00	0.0	4.663	0.000	0	0	0	9
918	FUSE-918	B	106-#2 ACS	7.32Y	122.0	0.09	3.97	6.98	4	50	12	97	0.02	0.0	5.514	0.851	50	12	9	9
4128	522	ABC	090-336 AC	7.39Y	123.2	0.03	2.79	55.88	11	1181	376	95	0.17	0.0	1.984	0.064	0	0	0	415
4064	4128	ABC	098-#3/0 A	7.39Y	123.1	0.08	2.88	8.03	3	151	95	85	0.06	0.0	3.174	1.191	151	94	34	34
OCR-523	4128	ABC	012-100-L	7.39Y	123.2	0.00	2.79	48.15	48	1030	281	96	0.00	0.0	1.984	0.000	0	0	0	381
523	OCR-523	ABC	098-#3/0 A	7.36Y	122.6	0.57	3.37	48.15	16	1030	281	96	3.64	0.4	2.883	0.899	239	91	64	381
4926	523	ABC	098-#3/0 A	7.34Y	122.4	0.28	3.65	36.65	12	788	186	97	1.48	0.2	3.430	0.547	70	16	18	317
524	4926	ABC	098-#3/0 A	7.32Y	122.1	0.28	3.93	29.55	10	634	149	97	1.04	0.2	4.227	0.798	260	60	109	267
822	524	ABC	098-#3/0 A	7.31Y	121.9	0.18	4.11	17.43	6	373	87	97	0.46	0.1	4.948	0.721	17	4	5	158
OCR-705	822	A	049-100-63	7.31Y	121.9	0.00	4.11	9.88	10	70	16	97	0.00	0.0	4.948	0.000	0	0	0	40
705	OCR-705	A	106-#2 ACS	7.30Y	121.7	0.16	4.27	9.88	5	70	16	97	0.05	0.1	5.976	1.028	70	16	40	40
FUSE-516	705	A	083-30M FU	7.31Y	121.9	0.00	4.11	10.91	18	78	18	97	0.00	0.0	4.948	0.000	0	0	0	32
516	FUSE-516	A	110-#4 ACS	7.31Y	121.8	0.08	4.19	10.91	8	78	18	97	0.02	0.0	5.921	0.973	78	18	32	32
OCR-344	822	ABC	049-100-63	7.31Y	121.9	0.00	4.11	9.71	10	207	48	97	0.00	0.0	4.948	0.000	0	0	0	81
344	OCR-344	ABC	098-#3/0 A	7.31Y	121.8	0.09	4.20	9.71	3	207	48	97	0.10	0.0	5.797	0.849	117	27	48	81
OCR-517	344	C	049-100-63	7.31Y	121.8	0.00	4.20	12.73	13	91	21	97	0.00	0.0	5.797	0.000	0	0	0	33
517	OCR-517	C	106-#2 ACS	7.29Y	121.5	0.27	4.47	12.73	7	91	21	97	0.12	0.1	7.148	1.351	90	21	33	33
OCR-4927	4926	A	049-100-63	7.34Y	122.4	0.00	3.65	11.52	12	82	19	97	0.00	0.0	3.430	0.000	0	0	0	32
4927	OCR-4927	A	110-#4 ACS	7.34Y	122.3	0.07	3.72	11.52	8	82	19	97	0.02	0.0	4.182	0.752	82	19	32	32
----- Feeder NO. 5 Beginning with Node Element 8905																				
8905	8900	ABC	Node	7.56Y	126.0	0.00	0.00	96.27	0	1942	998	89	0.00	0.0	0.000	0.000	0	0	0	477
C FUSE-347	8905	ABC	083-30M FU	7.56Y	126.0	0.00	0.00	96.27	160	1942	998	89	0.00	0.0	0.000	0.000	0	0	0	477
C 347	FUSE-347	ABC	110-#4 ACS	7.42Y	123.7	2.28	2.28	96.27	69	1942	998	89	21.32	1.1	2.325	2.325	361	270	87	477
503	347	ABC	098-#3/0 A	7.35Y	122.6	1.16	3.45	76.53	26	1559	688	91	10.99	0.7	3.358	1.033	266	206	39	390
346	503	ABC	098-#3/0 A	7.32Y	122.0	0.54	3.99	44.60	15	937	299	95	3.08	0.3	4.240	0.890	217	99	68	311
4063	346	ABC	098-#3/0 A	7.28Y	121.3	0.71	4.70	33.86	11	717	197	96	3.26	0.5	5.761	1.513	120	28	59	243
OCR-345	4063	ABC	007-50-H	7.28Y	121.3	0.00	4.70	10.65	21	226	53	97	0.00	0.0	5.761	0.000	0	0	0	85
345	OCR-345	ABC	098-#3/0 A	7.26Y	121.1	0.25	4.95	10.65	4	226	53	97	0.37	0.2	7.498	1.737	40	9	13	85
P 4065	345	ABC	098-#3/0 A	7.26Y	121.1	0.00	4.95	0.00	0	0	0	0	0.00	0.0	7.522	0.024	0	0	0	P
4047	345	A	106-#2 ACS	7.26Y	120.9	0.12	5.07	11.69	6	83	19	97	0.05	0.1	8.122	0.624	83	19	35	35
496	345	ABC	098-#3/0 A	7.26Y	121.0	0.04	4.99	4.87	2	103	24	97	0.03	0.0	8.183	0.685	23	5	7	37
343	496	ABC	098-#3/0 A	7.26Y	121.0	0.01	5.00	1.31	0	28	6	98	0.00	0.0	8.765	0.582	28	6	8	8
FUSE-996	496	A	083-30M FU	7.26Y	121.0	0.00	4.99	7.35	12	52	12	97	0.00	0.0	8.183	0.000	0	0	0	22
996	FUSE-996	A	106-#2 ACS	7.25Y	120.9	0.15	5.14	7.35	4	52	12	97	0.04	0.1	9.478	1.295	52	12	22	22
342	4063	ABC	098-#3/0 A	7.27Y	121.2	0.14	4.84	12.78	4	265	88	95	0.23	0.1	6.542	0.781	55	13	17	68
OCR-341	342	C	007-50-H	7.27Y	121.2	0.00	4.84	19.08	38	135	32	97	0.00	0.0	6.542	0.000	0	0	0	34
341	OCR-341	C	106-#2 ACS	7.23Y	120.5	0.68	5.52	19.08	11	135	32	97	0.60	0.4	7.876	1.334	43	10	13	34
4139	341	C	106-#2 ACS	7.23Y	120.4	0														

Balanced Voltage Drop Report
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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	% Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
529	OCR-529	ABC	098-#3/0 A	7.39Y	123.2	0.75	2.76	38.72	13	841	200	97	3.91	0.5	3.738	1.476	196	45	83	326
OCR-528	529	A	006-35-H	7.39Y	123.2	0.00	2.76	9.57	27	69	16	97	0.00	0.0	3.738	0.000	0	0	0	31
528	OCR-528	A	117-#6 A-C	7.37Y	122.9	0.36	3.11	9.57	7	69	16	97	0.12	0.2	5.389	1.651	69	16	31	31
531	529	ABC	098-#3/0 A	7.38Y	123.0	0.23	2.98	23.71	8	512	120	97	0.72	0.1	4.475	0.737	125	29	29	187
351	531	ABC	098-#3/0 A	7.38Y	123.0	0.01	3.00	2.49	1	54	12	98	0.00	0.0	5.194	0.719	54	12	24	24
350	531	ABC	116-4-ACWC	7.36Y	122.7	0.29	3.27	15.43	9	333	78	97	0.62	0.2	5.421	0.946	152	35	70	134
OCR-349	350	ABC	011-70-L	7.36Y	122.7	0.00	3.27	5.41	8	116	27	97	0.00	0.0	5.421	0.000	0	0	0	33
349	OCR-349	ABC	098-#3/0 A	7.36Y	122.7	0.06	3.33	5.41	2	116	27	97	0.04	0.0	6.509	1.088	70	16	22	33
OCR-750	349	ABC	011-70-L	7.36Y	122.7	0.00	3.33	2.16	3	46	11	97	0.00	0.0	6.509	0.000	0	0	0	11
750	OCR-750	ABC	098-#3/0 A	7.36Y	122.6	0.02	3.35	2.16	1	46	11	97	0.00	0.0	7.781	1.272	46	11	11	11
OCR-348	350	B	006-35-H	7.36Y	122.7	0.00	3.27	8.89	25	64	15	97	0.00	0.0	5.421	0.000	0	0	0	31
348	OCR-348	B	106-#2 ACS	7.35Y	122.4	0.31	3.58	8.89	5	64	15	97	0.09	0.1	7.589	2.168	64	15	31	31
FUSE-530	529	A	083-30W FU	7.39Y	123.2	0.00	2.76	8.30	14	60	14	97	0.00	0.0	3.738	0.000	0	0	0	25
530	FUSE-530	A	110-#4 ACS	7.39Y	123.2	0.04	2.80	8.30	6	60	14	97	0.01	0.0	4.430	0.692	60	14	25	25
Feeder NO. 3		Beginning with Node Element 8903																		
8903	8900	ABC	Node	7.56Y	126.0	0.00	0.00	95.16	0	1927	971	89	0.00	0.0	0.000	0.000	0	0	0	436
4058	8903	ABC	098-#3/0 A	7.55Y	125.9	0.14	0.14	95.16	32	1927	971	89	1.54	0.1	0.108	0.108	590	461	38	436
354	4058	ABC	098-#3/0 A	7.51Y	125.1	0.71	0.85	63.07	21	1336	508	93	5.70	0.4	0.879	0.770	217	116	53	398
4059	354	ABC	098-#3/0 A	7.51Y	125.1	0.05	0.90	20.31	7	402	218	88	0.10	0.0	1.053	0.174	176	131	26	56
4060	4059	ABC	098-#3/0 A	7.51Y	125.1	0.02	0.92	10.77	4	226	88	93	0.02	0.0	1.279	0.226	226	88	30	30
P 4061	4060	ABC	098-#3/0 A	7.51Y	125.1	0.00	0.92	0.00	0	0	0	0	0.00	0.0	1.310	0.031	0	0	0	0 P
624	354	ABC	098-#3/0 A	7.48Y	124.7	0.49	1.34	24.53	8	538	126	97	1.51	0.3	2.603	1.725	233	54	82	199
429	624	ABC	098-#3/0 A	7.47Y	124.5	0.14	1.48	13.89	5	304	71	97	0.20	0.1	3.720	1.117	246	57	94	117
OCR-353	429	C	006-35-H	7.47Y	124.5	0.00	1.48	7.88	23	57	13	97	0.00	0.0	3.720	0.000	0	0	0	23
353	OCR-353	C	106-#2 ACS	7.46Y	124.4	0.11	1.58	7.88	4	57	13	97	0.03	0.0	4.559	0.839	57	13	23	23
615	354	ABC	098-#3/0 A	7.50Y	125.0	0.19	1.04	7.86	3	172	40	97	0.17	0.1	3.235	2.356	108	25	50	90
OCR-584	615	A	007-50-H	7.50Y	125.0	0.00	1.04	8.74	17	64	15	97	0.00	0.0	3.235	0.000	0	0	0	40
584	OCR-584	A	106-#2 ACS	7.48Y	124.7	0.22	1.26	8.74	5	64	15	97	0.07	0.1	4.812	1.577	64	15	40	40
Feeder NO. 2		Beginning with Node Element 8902																		
8902	8900	ABC	Node	7.56Y	126.0	0.00	0.00	116.53	0	2215	1442	84	0.00	0.0	0.000	0.000	0	0	0	60
203	8902	ABC	098-#3/0 A	7.53Y	125.4	0.57	0.57	116.53	39	2215	1442	84	7.55	0.3	0.327	0.327	566	430	2	60
4055	203	ABC	098-#3/0 A	7.52Y	125.3	0.08	0.66	85.22	28	1641	1004	85	0.87	0.1	0.384	0.057	71	46	2	58
4056	4055	ABC	098-#3/0 A	7.51Y	125.2	0.19	0.85	81.46	27	1569	957	85	1.36	0.1	0.631	0.246	1298	960	48	56
852	4056	ABC	Capacitor	7.51Y	125.2	0.00	0.85	12.00	0	270	-5	-100	0.00	0.0	0.631	0.000	0	0	0	8
4057	852	ABC	098-#3/0 A	7.51Y	125.1	0.00	0.85	13.91	5	270	159	86	0.01	0.0	0.669	0.038	270	159	8	8
P 854	852	ABC	098-#3/0 A	7.51Y	125.2	0.00	0.85	0.00	0	0	0	0	0.00	0.0	0.676	0.045	0	0	0	0 P
P 4054	203	ABC	098-#3/0 A	7.53Y	125.4	0.00	0.57	0.00	0	0	0	0	0.00	0.0	0.333	0.006	0	0	0	0 P
Feeder NO. 1		Beginning with Node Element 8901																		
8901	8900	ABC	Node	7.56Y	126.0	0.00	0.00	66.12	0	1326	701	88	0.00	0.0	0.000	0.000	0	0	0	319
365	8901	ABC	098-#3/0 A	7.51Y	125.2	0.84	0.84	66.12	22	1326	701	88	6.74	0.5	0.808	0.808	239	56	109	319
363	365	ABC	098-#3/0 A	7.41Y	123.6	1.59	2.44	49.93	17	954	595	85	9.37	1.0	2.817	2.009	164	99	21	172
362	363	ABC	098-#3/0 A	7.40Y	123.3	0.31	2.75	23.71	8	491	193	93	0.99	0.2	3.627	0.810	0	0	0	146
594	362	ABC	098-#3/0 A	7.39Y	123.1	0.12	2.87	23.71	8	490	192	93	0.38	0.1	3.945	0.318	15	3	2	146
360	594	ABC	098-#3/0 A	7.38Y	122.9	0.19	3.06	23.03	8	475	188	93	0.55	0.1	4.516	0.572	80	71	4	144
359	360	ABC	098-#3/0 A	7.37Y	122.8	0.15	3.20	18.56	6	394	117	96	0.38	0.1	5.028	0.511	0	0	0	140
FUSE-358	359	ABC	081-20W FU	7.37Y	122.8	0.00	3.20	1.01	3	21	6	96	0.00	0.0	5.028	0.000	0	0	0	10
358	FUSE-358	ABC	098-#3/0 A	7.37Y	122.8	0.01	3.21	1.01	0	21	6	96	0.00	0.0	5.637	0.609	13	4	5	10
595	358	B	117-#6 A-C	7.37Y	122.8	0.02	3.23	1.15	1	8	2	97	0.00	0.0	6.333	0.696	8	2	5	5
357	595	ABC	098-#3/0 A	7.36Y	122.7	0.13	3.34	11.30	4	241	67	96	0.21	0.1	5.867	0.839	26	17	4	80
OCR-752	357	ABC	006-35-H	7.36Y	122.7	0.00	3.34	9.96	28	214	50	97	0.00	0.0	5.867	0.000	0	0	0	76
752	OCR-752	ABC	098-#3/0 A	7.35Y	122.6	0.10	3.44	9.96	3	214	50	97	0.10	0.0	7.266	1.399	214	50	76	76
596	359	ABC	098-#3/0 A	7.37Y	122.8	0.01	3.21	6.25	2	131	43	95	0.01	0.0	5.282	0.255	131	43	50	50
P 364	363	ABC	098-#3/0 A	7.40Y	123.4	0.20	2.64	18.53	6	290	293	70	0.30	0.1	4.020	1.204	290	293	5	5 P
585	365	ABC	110-#4 ACS	7.51Y	125.1	0.01	0.85	5.88	4	126	42	95	0.01	0.0	1.172	0.364	126	42	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	10928	0	0	0	0	0	151	0.00	11080	Lowest Voltage = 120.38 on Element 4138		
KVAR	5348	0	-163	0	0	0	190		5374	Max Accm VoltD = 5.62 on Element 4138		
										Max Elem VoltD = 2.51 on Element 339		

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Cloverport Summer Base

Detail

Balanced Voltage Drop Report Source: 8200

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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-					mi From Src	Length (mi)	Element		Cons On	Cons Thru			
							Accum Drop	Thru Amps	% Cap	Thru KW	KVAR			% PF	KW Loss			% Loss	KW	KVAR
8200		ABC	SRC-8200-D	7.56Y	126.0	0.00	0.00	219.81	0	4337	2459	87	0.00	0.0	0.000	0.000	0	0	0	1140
----- Feeder NO. 2 Beginning with Node Element 8205																				
8205	8200	ABC	Node	7.56Y	126.0	0.00	0.00	39.02	0	773	431	87	0.00	0.0	0.000	0.000	0	0	0	294
144	8205	ABC	098-#3/0 A	7.55Y	125.8	0.24	0.24	39.02	13	773	431	87	1.15	0.1	0.301	0.301	86	45	26	294
4821	144	ABC	098-#3/0 A	7.54Y	125.7	0.08	0.32	34.74	12	686	385	87	0.33	0.0	0.515	0.134	55	29	22	268
4822	4821	ABC	098-#3/0 A	7.54Y	125.6	0.06	0.38	32.00	11	630	356	87	0.25	0.0	0.634	0.119	31	16	5	246
4824	4822	ABC	098-#3/0 A	7.53Y	125.5	0.07	0.45	30.45	10	599	340	87	0.27	0.0	0.779	0.145	65	34	24	241
770	4824	ABC	098-#3/0 A	7.52Y	125.3	0.29	0.75	27.19	9	533	305	87	0.73	0.1	1.849	1.070	436	254	174	217
P 4953	770	ABC	098-#3/0 A	7.52Y	125.3	0.00	0.75	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	0.75	5.89	6	39	20	89	0.00	0.0	1.849	0.000	0	0	0	13
1772	OCR-1772	C	106-#2 ACS	7.51Y	125.2	0.02	0.76	5.89	3	39	20	89	0.00	0.0	2.002	0.153	39	20	13	13
OCR-1771	770	A	049-100-63	7.52Y	125.3	0.00	0.75	8.54	9	57	30	88	0.00	0.0	1.849	0.000	0	0	0	30
1771	OCR-1771	A	106-#2 ACS	7.51Y	125.2	0.03	0.78	8.54	5	57	30	88	0.01	0.0	2.066	0.217	57	30	30	30
P 4124	144	ABC	098-#3/0 A	7.55Y	125.8	0.00	0.24	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	47.97	0	939	550	86	0.00	0.0	0.000	0.000	0	0	0	267
142	8204	ABC	098-#3/0 A	7.52Y	125.3	0.70	0.70	47.97	16	939	550	86	3.75	0.4	1.022	1.022	319	186	90	267
137	142	ABC	098-#3/0 A	7.51Y	125.1	0.21	0.91	28.42	9	552	326	86	0.66	0.1	1.534	0.512	189	103	75	152
4956	137	ABC	098-#3/0 A	7.50Y	125.1	0.04	0.95	16.46	5	314	197	85	0.07	0.0	1.676	0.142	56	29	20	59
4957	4956	ABC	098-#3/0 A	7.50Y	125.0	0.02	0.97	13.66	5	258	167	84	0.03	0.0	1.865	0.188	258	167	39	39
4955	137	ABC	098-#3/0 A	7.51Y	125.1	0.00	0.91	2.40	1	48	25	89	0.00	0.0	1.557	0.023	0	0	0	18
4954	4955	ABC	098-#3/0 A	7.51Y	125.1	0.00	0.91	2.40	1	48	25	89	0.00	0.0	1.705	0.148	48	25	18	18
P 4120	142	ABC	098-#3/0 A	7.52Y	125.3	0.00	0.70	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	7.52Y	125.3	0.00	0.70	9.67	10	64	34	88	0.00	0.0	1.022	0.000	0	0	0	25
771	OCR-771	C	117-#6 A-C	7.51Y	125.2	0.05	0.75	9.67	7	64	34	88	0.02	0.0	1.255	0.232	64	34	25	25
----- Feeder NO. 3 Beginning with Node Element 8203																				
8203	8200	ABC	Node	7.56Y	126.0	0.00	0.00	63.67	0	1269	690	88	0.00	0.0	0.000	0.000	0	0	0	332
141	8203	ABC	098-#3/0 A	7.48Y	124.7	1.32	1.32	63.67	21	1269	690	88	10.22	0.8	1.300	1.300	167	87	58	332
OCR-139	141	ABC	007- 50-H	7.48Y	124.7	0.00	1.32	36.07	72	708	392	87	0.00	0.0	1.300	0.000	0	0	0	179
139	OCR-139	ABC	098-#3/0 A	7.45Y	124.1	0.55	1.87	36.07	12	708	392	87	2.34	0.3	2.311	1.010	150	97	15	179
136	139	ABC	098-#3/0 A	7.37Y	122.8	1.31	3.18	23.33	8	461	243	88	3.41	0.7	6.422	4.111	178	93	57	129
134	136	ABC	098-#3/0 A	7.36Y	122.6	0.21	3.40	12.62	4	247	129	89	0.32	0.1	7.500	1.078	39	20	9	60
OCR-132	134	C	006- 35-H	7.36Y	122.6	0.00	3.40	1.72	5	11	6	88	0.00	0.0	7.500	0.000	0	0	0	9
132	OCR-132	C	117-#6 A-C	7.35Y	122.5	0.09	3.49	1.72	1	11	6	88	0.01	0.0	9.813	2.313	11	6	9	9
C OCR-131	134	A	006- 35-H	7.36Y	122.6	0.00	3.40	30.14	86	197	103	89	0.00	0.0	7.500	0.000	0	0	0	42 C
131	OCR-131	A	117-#6 A-C	7.22Y	120.4	2.25	5.64	30.14	22	197	103	89	2.75	1.4	9.821	2.321	125	65	31	42
4925	131	A	117-#6 A-C	7.22Y	120.3	0.25	5.66	4.09	3	26	14	88	0.00	0.0	10.020	0.200	26	14	4	4
OCR-153	131	A	049-100-63	7.22Y	120.4	0.00	5.64	6.64	7	43	22	89	0.00	0.0	9.821	0.000	0	0	0	7
153	OCR-153	A	117-#6 A-C	7.20Y	120.0	0.34	5.98	6.64	5	43	22	89	0.08	0.2	11.994	2.173	42	22	7	7
FUSE-764	136	B	083-30N FU	7.37Y	122.8	0.00	3.18	4.92	8	32	17	88	0.00	0.0	6.422	0.000	0	0	0	12
764	FUSE-764	B	106-#2 ACS	7.36Y	122.7	0.07	3.25	4.92	3	32	17	88	0.01	0.0	7.219	0.797	32	17	12	12
4023	139	A	118-#8 A-C	7.44Y	124.0	0.11	1.98	14.27	14	94	49	89	0.08	0.1	2.435	0.125	14	7	4	35
OCR-138	4023	A	006- 35-H	7.44Y	124.0	0.00	1.98	12.21	35	81	42	89	0.00	0.0	2.435	0.000	0	0	0	31
138	OCR-138	A	106-#2 ACS	7.41Y	123.4	0.57	2.56	12.21	7	81	42	89	0.22	0.3	5.124	2.688	80	42	31	31
4906	141	ABC	098-#3/0 A	7.48Y	124.6	0.05	1.37	15.90	5	316	165	89	0.10	0.0	1.488	0.188	21	11	4	80
OCR-4907	4906	ABC	010- 50-L	7.48Y	124.6	0.00	1.37	14.86	30	296	154	89	0.00	0.0	1.488	0.000	0	0	0	76
4907	OCR-4907	ABC	098-#3/0 A	7.47Y	124.5	0.14	1.51	14.86	5	296	154	89	0.24	0.1	2.135	0.647	81	42	15	76
4908	4907	ABC	098-#3/0 A	7.47Y	124.5	0.01	1.52	10.76	4	214	111	89	0.02	0.0	2.214	0.079	0	0	0	61
4909	4908	ABC	098-#3/0 A	7.47Y	124.5	0.01	1.53	10.76	4	214	111	89	0.01	0.0	2.272	0.058	5	3	1	61
4910	4909	ABC	098-#3/0 A	7.46Y	124.3	0.17	1.70	10.51	4	209	109	89	0.19	0.1	3.523	1.252	97	51	32	60
OCR-4915	4910	A	049-100-63	7.46Y	124.3	0.00	1.70	4.71	5	31	16	89	0.00	0.0	3.523	0.000	0	0	0	12
4915	OCR-4915	A	117-#6 A-C	7.45Y	124.1	0.16	1.87	4.71	3	31	16	89	0.03	0.1	4.974	1.451	31	16	12	12
4911	4910	ABC	098-#3/0 A	7.46Y	124.3	0.01	1.72	4.05	1	80	42	89	0.01	0.0	3.677	0.154	0	0	0	16
4912	4911	ABC	098-#3/0 A	7.46Y	124.3	0.02	1.73	4.05	1	80	42	89	0.01	0.0	4.020	0.342	44	23	3	16
4913	4912	ABC	098-#3/0 A	7.46Y	124.3	0.01	1.74	1.83	1	36	19	88	0.00	0.0	4.441	0.121	10	5	3	13
4914	4913	ABC	098-#3/0 A	7.46Y	124.3	0.01	1.75	1.33	0	26	14	88	0.00	0.0	4.718	0.277	0	0	0	10
OCR-4916	4914	C	049-100-63	7.46Y	124.3	0.00	1.75	3.99	4	26	14	88	0.00	0.0	4.718	0.000	0	0	0	10
4916	OCR-4916	C	118-#8 A-C	7.45Y	124.2	0.08	1.83	3.99	4	26	14	88	0.02	0.1	5.047	0.329	4	2	1	10
OCR-4917	4916	C	049-100-63	7.45Y	124.2	0.00	1.83	3.41	3	23	12	89	0.00	0.0	5.047	0.000	0	0	0	9
4917	OCR-4917	C	118-#8 A-C	7.44Y	124.0	0.18	2.01	3.41	3	23	12	89	0.02	0.1	6.633	1.587	22	12	9	9
OCR-763	141																			

Balanced Voltage Drop Report
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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	% Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
8201	8200	ABC	Node	7.56Y	126.0	0.00	0.00	20.12	0	404	212	89	0.00	0.0	0.000	0.000	0	0	0	102
533	8201	ABC	098-W3/0 A	7.52Y	125.3	0.74	0.74	20.12	7	404	212	89	1.70	0.4	2.607	2.607	133	69	28	102
147	533	ABC	102-W1/0 A	7.50Y	125.0	0.30	1.04	13.48	6	269	141	89	0.51	0.2	3.902	1.295	65	34	20	74
146	147	ABC	102-W1/0 A	7.50Y	124.9	0.02	1.07	2.66	1	53	28	88	0.01	0.0	4.763	0.861	53	28	13	13
997	147	ABC	102-W1/0 A	7.49Y	124.9	0.10	1.15	7.58	3	151	79	89	0.09	0.1	4.793	0.891	66	34	17	41
FUSE-145	997	C	083-30H FU	7.49Y	124.9	0.00	1.15	12.80	21	85	44	89	0.00	0.0	4.793	0.000	0	0	0	24
145	FUSE-145	C	117-W6 A-C	7.45Y	124.2	0.68	1.83	12.80	9	85	44	89	0.30	0.4	7.041	2.248	85	44	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	4295	0	0	0	0	0	41		0.00	4337	Lowest Voltage =	120.02 on Element 153
KVAR	2417	0	0	0	0	0	42			2459	Max Accum VoltD =	5.98 on Element 153
											Max ELEM VoltD =	2.25 on Element 131

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Balanced Voltage Drop Report
Source: 8110

Detail

Units Displayed In Volts

Element Name Parent Name Parent Name Chf Conductor Type/Pri Base Element Drop Accum Drop Amps Thru % Thru KVAR EF Loss % Loss Sec From Length (mi) Element Cons Cons On Thru

Table with columns for Element Name, Parent Name, Chf Conductor, Type/Pri, Base Element Drop, Accum Drop, Amps Thru, % Thru, KVAR, EF Loss, % Loss, Sec From, Length (mi), Element Cons, Cons On Thru. Includes data for Feeder No. 1 and Feeder No. 2.

Table with columns for Element Name, Parent Name, Chf Conductor, Type/Pri, Base Element Drop, Accum Drop, Amps Thru, % Thru, KVAR, EF Loss, % Loss, Sec From, Length (mi), Element Cons, Cons On Thru. Includes data for Feeder No. 3 and Feeder No. 4.

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Balanced Voltage Drop Report
Source: 8110

Database: S:\MILSOFT 2005\DATA\SUMMER MODEL 2005.WM\
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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	% Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	On	Thru
FUSE-406	247	B	082-25N FU	7.45Y	124.2	0.00	1.78	4.80	10	33	13	93	0.00	0.0	9.190	0.000	0	0	0	21
406	FUSE-406	B	106-H2 ACS	7.44Y	123.9	0.30	2.08	4.80	3	33	13	93	0.07	0.2	11.055	1.865	33	13	21	21
FUSE-742	249	C	082-25N FU	7.47Y	124.5	0.00	1.46	2.67	5	19	7	94	0.00	0.0	7.921	0.000	0	0	0	4
742	FUSE-742	C	110-H4 ACS	7.47Y	124.5	0.03	1.50	2.67	2	19	7	94	0.00	0.0	8.598	0.677	19	7	4	4
OCR-250	249	C	006- 35-H	7.47Y	124.5	0.00	1.46	10.63	30	74	28	94	0.00	0.0	7.921	0.000	0	0	0	32
250	OCR-250	C	106-H2 ACS	7.41Y	123.6	0.96	2.43	10.63	6	74	28	94	0.50	0.7	10.602	2.681	74	28	32	32
OCR-246	987	ABC	007- 50-H	7.52Y	125.3	0.00	0.68	9.37	19	198	75	94	0.00	0.0	5.760	0.000	0	0	0	67
246	OCR-246	ABC	098-H3/0 A	7.49Y	124.8	0.51	1.19	9.37	3	198	75	94	0.64	0.3	9.140	3.380	197	75	67	67
FUSE-723	256	C	081-20N FU	7.43Y	123.8	0.00	2.21	5.96	15	41	16	93	0.00	0.0	2.322	0.000	0	0	0	13
723	FUSE-723	C	118-H8 A-C	7.40Y	123.3	0.45	2.66	5.96	6	41	16	93	0.15	0.4	3.448	1.126	41	16	13	13
FUSE-722	256	A	081-20N FU	7.43Y	123.8	0.00	2.21	4.07	10	28	11	93	0.00	0.0	2.322	0.000	0	0	0	14
722	FUSE-722	A	106-H2 ACS	7.41Y	123.5	0.31	2.52	4.07	2	28	11	93	0.06	0.2	4.612	2.291	28	11	14	14

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	3656	0	0	0	0	0	106	0.00	3762	Lowest Voltage = 118.38 on Element 232	
KVAR	1612	0	0	0	0	0	103		1715	Max Accm VoltD = 7.62 on Element 232	
										Max Elem VoltD = 2.40 on Element 243	

DOE VALLEY SUMMER BASE

Balanced Voltage Drop Report
Source: 8130

Detail

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	Thru Cap	Thru KW	KVAR	PF	kW Loss	kVA Loss	mi From Src	Length (mi)	Element			
																	KW	KVAR	Cons On	Thru
8130		ABC	SRC-8130-D	7.56Y	126.0	0.00	0.00	255.17	0	5266	2401	91	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	55.57	0	1135	549	90	0.00	0.0	0.000	0.000	0	0	0	383
621	8133	ABC	098-#3/0 A	7.46Y	124.3	1.73	1.73	55.57	19	1135	549	90	12.47	1.1	1.861	1.861	0	0	0	383
P 959	621	ABC	098-#3/0 A	7.46Y	124.3	0.00	1.73	0.00	0	0	0	0.00	0.0	1.865	0.004	0	0	0	0	0
779	621	ABC	098-#3/0 A	7.42Y	123.7	0.53	2.26	55.57	19	1122	535	90	3.79	0.3	2.427	0.566	139	62	36	383
589	779	ABC	098-#3/0 A	7.38Y	123.1	0.66	2.92	21.60	7	440	194	92	1.88	0.4	4.287	1.860	438	192	149	149
789	779	ABC	098-#3/0 A	7.37Y	122.9	0.83	3.09	27.15	9	539	275	89	2.90	0.5	4.239	1.813	178	78	55	198
361	789	ABC	098-#3/0 A	7.35Y	122.6	0.34	3.43	18.41	6	358	194	88	0.79	0.2	5.320	1.080	357	193	143	143
----- Feeder NO. 4 Beginning with Node Element 8134																				
8134	8130	ABC	Node	7.56Y	126.0	0.00	0.00	37.51	0	777	347	91	0.00	0.0	0.000	0.000	0	0	0	219
475	8134	ABC	098-#3/0 A	7.49Y	124.8	1.15	1.15	37.51	13	777	347	91	5.68	0.7	1.860	1.860	286	125	79	219
593	475	ABC	110-#4 ACS	7.48Y	124.7	0.17	1.33	23.63	17	485	216	91	0.44	0.1	2.520	0.660	485	215	140	140
----- Feeder NO. 2 Beginning with Node Element 8132																				
8132	8130	ABC	Node	7.56Y	126.0	0.00	0.00	81.35	0	1683	755	91	0.00	0.0	0.000	0.000	0	0	0	431
476	8132	ABC	098-#3/0 A	7.43Y	123.9	2.12	2.12	81.35	27	1683	755	91	22.60	1.3	1.575	1.575	290	127	73	431
OCR-778	476	ABC	011-70-L	7.43Y	123.9	0.00	2.12	30.88	44	630	278	91	0.00	0.0	1.575	0.000	0	0	0	172
778	OCR-778	ABC	098-#3/0 A	7.40Y	123.3	0.60	2.71	30.88	10	630	278	91	2.44	0.4	2.752	1.178	216	94	62	172
OCR-759	778	A	049-100-63	7.40Y	123.3	0.00	2.71	29.71	30	201	88	92	0.00	0.0	2.752	0.000	0	0	0	54
759	OCR-759	A	098-#3/0 A	7.37Y	122.8	0.48	3.20	29.71	10	201	88	92	0.59	0.3	3.475	0.723	201	88	54	54
OCR-4079	778	B	049-100-63	7.40Y	123.3	0.00	2.71	2.87	3	19	9	90	0.00	0.0	2.752	0.000	0	0	0	4
4079	OCR-4079	B	118-#8 A-C	7.39Y	123.2	0.06	2.78	2.87	3	19	9	90	0.01	0.0	3.076	0.324	19	8	4	4
OCR-4078	778	B	049-100-63	7.40Y	123.3	0.00	2.71	11.78	12	80	35	92	0.00	0.0	2.752	0.000	0	0	0	21
4078	OCR-4078	B	110-#4 ACS	7.39Y	123.2	0.10	2.81	11.78	8	80	35	92	0.04	0.0	3.197	0.444	80	35	21	21
OCR-4077	778	C	049-100-63	7.40Y	123.3	0.00	2.71	16.42	16	111	49	91	0.00	0.0	2.752	0.000	0	0	0	31
4077	OCR-4077	C	098-#3/0 A	7.39Y	123.2	0.06	2.78	16.42	5	111	49	91	0.04	0.0	2.926	0.173	46	20	9	31
FUSE-776	4077	C	081-20N FU	7.39Y	123.2	0.00	2.78	9.60	24	65	28	92	0.00	0.0	2.926	0.000	0	0	0	22
776	FUSE-776	C	106-#2 ACS	7.37Y	122.9	0.31	3.09	9.60	5	65	28	92	0.14	0.2	3.262	0.937	65	28	22	22
OCR-775	476	B	049-100-63	7.43Y	123.9	0.00	2.12	10.16	10	69	30	92	0.00	0.0	1.575	0.000	0	0	0	23
775	OCR-775	B	118-#8 A-C	7.41Y	123.5	0.35	2.46	10.16	10	69	30	92	0.20	0.3	2.083	0.509	69	30	23	23
FUSE-748	476	A	082-25N FU	7.43Y	123.9	0.00	2.12	34.97	70	238	104	92	0.00	0.0	1.575	0.000	0	0	0	64
748	FUSE-748	A	117-#6 A-C	7.37Y	122.9	0.99	3.10	34.97	25	238	104	92	1.80	0.8	2.174	0.600	169	74	49	64
756	748	A	118-#8 A-C	7.36Y	122.6	0.28	3.38	10.00	10	68	30	91	0.15	0.2	2.589	0.415	67	29	15	15
477	476	ABC	098-#3/0 A	7.40Y	123.3	0.59	2.71	21.21	7	433	191	91	1.65	0.4	3.268	1.694	291	127	70	99
P 762	477	ABC	098-#3/0 A	7.40Y	123.3	0.00	2.71	0.00	0	0	0	0.00	0.0	3.317	0.049	0	0	0	0	0
OCR-757	477	C	047-70-63	7.40Y	123.3	0.00	2.71	20.76	30	141	62	92	0.00	0.0	3.268	0.000	0	0	0	29
757	OCR-757	C	106-#2 ACS	7.36Y	122.6	0.67	3.37	20.76	12	141	62	92	0.66	0.5	4.205	0.937	140	61	29	29
----- Feeder NO. 1 Beginning with Node Element 8131																				
8131	8130	ABC	Node	7.56Y	126.0	0.00	0.00	80.76	0	1671	751	91	0.00	0.0	0.000	0.000	0	0	0	360
474	8131	ABC	098-#3/0 A	7.49Y	124.9	1.09	1.09	80.76	27	1671	751	91	11.51	0.7	0.813	0.813	223	97	42	360
C OCR-356	474	ABC	007-50-H	7.49Y	124.9	0.00	1.09	65.16	130	1338	597	91	0.00	0.0	0.813	0.000	0	0	0	292
356	OCR-356	ABC	098-#3/0 A	7.41Y	123.4	1.49	2.58	65.16	22	1338	597	91	12.75	1.0	2.198	1.385	46	20	9	292
OCR-4140	356	ABC	011-70-L	7.41Y	123.4	0.00	2.58	32.13	46	653	288	91	0.00	0.0	2.198	0.000	0	0	0	121
4140	OCR-4140	ABC	098-#3/0 A	7.39Y	123.2	0.23	2.81	32.13	11	653	288	91	0.98	0.1	2.635	0.437	43	19	5	121
4142	4140	ABC	098-#3/0 A	7.38Y	123.1	0.14	2.94	26.05	9	529	233	92	0.47	0.1	2.954	0.319	130	57	21	102
OCR-4145	4142	A	049-100-63	7.38Y	123.1	0.00	2.94	29.32	29	198	87	92	0.00	0.0	2.954	0.000	0	0	0	38
4145	OCR-4145	A	110-#4 ACS	7.38Y	122.9	0.11	3.05	29.32	21	198	87	92	0.11	0.1	3.147	0.193	11	5	2	38
4150	4145	A	110-#4 ACS	7.36Y	122.7	0.25	3.30	27.69	20	187	82	92	0.24	0.1	3.631	0.483	141	62	30	36
4152	4150	A	110-#4 ACS	7.36Y	122.7	0.03	3.34	6.73	5	45	20	91	0.01	0.0	3.905	0.274	45	20	6	6
OCR-4143	4142	C	049-100-63	7.38Y	123.1	0.00	2.94	29.56	30	200	88	92	0.00	0.0	2.954	0.000	0	0	0	43
4143	OCR-4143	C	106-#2 ACS	7.37Y	122.9	0.14	3.09	29.56	16	200	88	92	0.20	0.1	3.094	0.140	0	0	0	43
4146	4143	C	110-#4 ACS	7.36Y	122.6	0.32	3.41	29.56	21	199	88	91	0.33	0.2	3.675	0.581	55	24	18	43
OCR-4147	4146	C	049-100-63	7.36Y	122.6	0.00	3.41	21.45	21	144	63	92	0.00	0.0	3.675	0.000	0	0	0	25
4147	OCR-4147	C	110-#4 ACS	7.35Y	122.5	0.12	3.52	21.45	15	144	63	92	0.08	0.1	3.961	0.286	38	17	5	25
4148	4147	C	110-#4 ACS	7.34Y	122.4	0.11	3.63	15.75	11	106	46	92	0.06	0.1	4.333	0.372	65	28	13	20
4149	4148	C	110-#4 ACS	7.34Y	122.3	0.03	3.67	6.11	4	41	18	92	0.01	0.0	4.619	0.285	41	18	7	7
4141	4140	ABC	098-#3/0 A	7.39Y	123.2	0.02	2.83	3.94	1	80	35	92	0.01	0.0	3.011	0.376	80	35	14	14
4075	356	ABC	098-#3/0 A	7.40Y	123.3	0.08	2.66	26.56	9	540	237	92	0.29	0.1	2.386	0.188	15	6	3	140
OCR-754	4075	ABC	012-100-L	7.40Y	123.3	0.00	2.66	25.84	26	525	230	92	0.00	0.0	2.386	0.000	0	0	0	137
754	OCR-754	ABC	098-#3/0 A	7.38Y	123.0	0.37	3.03	25.84	9	525	230	92	1.26	0.2	3.253	0.867	466	204	123	137
OCR-4076	754	B	049-100-63	7.38Y																

Falls of Rough Summer Base

Balanced Voltage Drop Report
Source: 8160

Detail

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	KW	KVAR	% PF	KW Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
8160		ABC	SRC-8160-D	7.56Y	126.0	0.00	0.00	224.40	0	4945	1203	97	0.00	0.0	0.000	0.000	0	0	0	1445
turtle	8160	ABC	Capacitor	7.56Y	126.0	0.00	0.00	224.40	0	4945	1203	97	0.00	0.0	0.000	0.000	0	0	0	1445
----- Feeder NO. 4 Beginning with Node Element Feeder 4																				
Feeder 4	turtle	ABC	Node	7.56Y	126.0	0.00	0.00	21.12	0	450	164	94	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	21.12	9	450	164	94	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	21.12	30	450	164	94	0.00	0.0	0.012	0.000	0	0	0	140
53	OCR-53	ABC	098-#3/0 A	7.52Y	125.3	0.74	0.74	21.12	7	450	164	94	1.99	0.4	2.394	2.382	80	23	32	140
4932	53	ABC	110-#4 ACS	7.52Y	125.3	0.00	0.74	6.35	5	126	68	88	0.00	0.0	2.450	0.056	82	56	4	8
4940	4932	ABC	090-336 AC	7.52Y	125.3	0.00	0.75	2.01	0	44	12	96	0.00	0.0	2.856	0.406	28	8	2	4
4942	4940	ABC	602-1/0AL	7.52Y	125.3	0.00	0.75	0.74	0	16	5	95	0.00	0.0	2.967	0.111	0	0	0	2
4943	4942	ABC	602-1/0AL	7.51Y	125.2	0.00	0.75	0.74	0	16	5	95	0.00	0.0	3.133	0.166	0	0	0	2
4946	4943	ABC	602-1/0AL	7.51Y	125.2	0.00	0.75	0.74	0	16	5	95	0.00	0.0	3.250	0.117	16	5	2	2
610	53	ABC	098-#3/0 A	7.51Y	125.2	0.08	0.82	11.21	4	243	71	96	0.13	0.1	2.882	0.488	8	3	4	100
OCR-609	610	B	049-100-63	7.51Y	125.2	0.00	0.82	2.77	3	20	6	96	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	1.04	2.77	3	20	6	96	0.02	0.1	5.211	2.329	20	6	9	9
40	610	ABC	098-#3/0 A	7.49Y	124.9	0.31	1.13	9.90	3	214	62	96	0.41	0.2	5.098	2.216	32	9	10	87
44	40	ABC	098-#3/0 A	7.47Y	124.6	0.30	1.44	8.44	3	182	52	96	0.31	0.2	8.105	3.006	79	22	38	77
OCR-43	44	C	006- 35-H	7.47Y	124.6	0.00	1.44	12.66	36	91	26	96	0.00	0.0	8.105	0.000	0	0	0	30
43	OCR-43	C	106-#2 ACS	7.44Y	124.0	0.59	2.03	12.66	7	91	26	96	0.35	0.4	9.678	1.573	16	5	3	30
FUSE-42	43	C	081-20N FU	7.44Y	124.0	0.00	2.03	10.37	26	74	21	96	0.00	0.0	9.678	0.000	0	0	0	27
42	FUSE-42	C	110-#4 ACS	7.42Y	123.7	0.23	2.27	10.37	7	74	21	96	0.06	0.1	12.433	2.756	74	21	27	27
OCR-772	44	C	049-100-63	7.47Y	124.6	0.00	1.44	1.25	1	9	3	95	0.00	0.0	8.105	0.000	0	0	0	5
772	OCR-772	C	106-#2 ACS	7.47Y	124.5	0.06	1.50	1.25	1	9	3	95	0.00	0.0	11.016	2.911	9	3	5	5
OCR-45	44	B	049-100-63	7.47Y	124.6	0.00	1.44	0.49	0	4	1	97	0.00	0.0	8.105	0.000	0	0	0	4
45	OCR-45	B	106-#2 ACS	7.47Y	124.5	0.01	1.45	0.49	0	4	1	97	0.00	0.0	9.670	1.566	4	1	4	4
----- Feeder NO. 3 Beginning with Node Element Feeder 3																				
Feeder 3	turtle	ABC	Node	7.56Y	126.0	0.00	0.00	110.13	0	2348	853	94	0.00	0.0	0.000	0.000	0	0	0	1002
8163	Feeder 3	ABC	002-1/0 15	7.56Y	126.0	0.03	0.03	110.13	48	2348	853	94	0.50	0.0	0.012	0.012	0	0	0	1002
4829	8163	ABC	090-336 AC	7.54Y	125.7	0.28	0.31	110.13	21	2347	852	94	3.19	0.1	0.339	0.327	82	54	15	1002
OCR-834	4829	C	049-100-63	7.54Y	125.7	0.00	0.31	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	0.31	0.00	0	0	0	0	0.00	0.0	1.035	0.697	0	0	0	0
816	4829	ABC	098-#3/0 A	7.53Y	125.4	0.26	0.57	105.92	35	2262	791	94	3.76	0.2	0.493	0.155	0	0	0	987
819	816	ABC	Capacitor	7.53Y	125.4	0.00	0.57	105.92	0	2258	787	94	0.00	0.0	0.493	0.000	0	0	0	987
64	819	ABC	098-#3/0 A	7.39Y	123.1	2.34	2.91	117.11	39	2258	1375	85	33.79	1.5	1.676	1.182	104	67	115	987
C OCR-66	64	ABC	011- 70-L	7.39Y	123.1	0.00	2.91	111.57	159	2121	1270	86	0.00	0.0	1.676	0.000	0	0	0	872
66	OCR-66	ABC	098-#3/0 A	7.28Y	121.3	1.79	4.70	111.57	37	2121	1270	86	24.75	1.2	2.624	0.949	84	54	26	872
826	66	ABC	Capacitor	7.28Y	121.3	0.00	4.70	93.75	0	1768	1031	86	0.00	0.0	2.624	0.000	0	0	0	602
639	826	ABC	098-#3/0 A	7.21Y	120.2	1.09	5.79	95.38	32	1768	1100	85	12.83	0.7	3.288	0.664	43	28	15	607
OCR-638	639	B	060-35-4H	7.21Y	120.2	0.00	5.79	6.48	19	39	25	84	0.00	0.0	3.288	0.000	0	0	0	45
638	OCR-638	B	110-#4 ACS	7.21Y	120.1	0.09	5.87	6.48	5	39	25	84	0.01	0.0	4.552	1.263	39	25	45	45
4833	639	ABC	098-#3/0 A	7.20Y	120.0	0.22	6.01	88.72	30	1634	1007	85	2.45	0.1	3.432	0.143	0	0	0	529
4834	4833	ABC	Regulator	7.56Y	126.0	-6.01	0.00	88.72	41	1632	1004	85	0.00	0.0	3.432	0.000	0	0	0	529
4835	4834	ABC	098-#3/0 A	7.54Y	125.7	0.31	0.31	84.49	28	1632	1004	85	3.30	0.2	3.648	0.217	35	23	8	529
68	4835	ABC	098-#3/0 A	7.47Y	124.4	1.25	1.57	82.64	28	1594	978	85	12.54	0.8	4.561	0.912	137	88	71	529
FUSE-805	68	ABC	082-25N FU	7.47Y	124.4	0.00	1.57	14.98	30	241	234	72	0.00	0.0	4.561	0.000	0	0	0	13
P 805	FUSE-805	ABC	106-#2 ACS	7.46Y	124.3	0.16	1.72	14.98	8	241	234	72	0.25	0.1	5.342	0.781	240	234	13	13
OCR-559	68	A	049-100-63	7.47Y	124.4	0.00	1.57	40.48	40	255	163	84	0.00	0.0	4.561	0.000	0	0	0	88
559	OCR-559	A	118-#8 A-C	7.26Y	121.0	3.48	5.04	40.48	40	255	163	84	7.48	2.9	5.985	1.424	44	28	13	88
67	559	A	118-#8 A-C	7.25Y	120.9	0.04	5.09	2.69	3	16	11	82	0.00	0.0	6.460	0.475	16	11	3	9
825	559	A	118-#8 A-C	7.25Y	120.8	0.19	5.23	5.78	6	35	23	84	0.04	0.1	6.976	0.991	35	23	6	6
642	559	A	118-#8 A-C	7.23Y	120.5	0.48	5.52	13.92	14	85	55	84	0.25	0.3	7.024	1.039	85	55	38	38
560	559	A	110-#4 ACS	7.25Y	120.8	0.17	5.21	10.98	8	67	43	84	0.04	0.1	7.413	1.428	67	43	28	28
FUSE-74	68	ABC	085-50N FU	7.47Y	124.4	0.00	1.57	47.47	17	949	479	89	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	47.47	16	949	479	89	3.20	0.3	5.245	0.684	44	32	26	349
954	74	ABC	Capacitor	7.43Y	123.9	0.00	2.10	45.05	0	901	444	90	0.00	0.0	5.245	0.000	0	0	0	323
811	954	ABC	098-#3/0 A	7.40Y	123.3	0.57	2.67	48.23	16	901	587	84	3.41	0.4	5.934	0.690	22	14	4	323
501	811	ABC	098-#3/0 A	7.37Y	122.8	0.50	3.17	30.80	10	573	373	84	1.88	0.3	6.883	0.948	24	16	3	165
71	501	ABC	100-#2/0 A	7.32Y	122.0	0.78	3.96	29.48	11	547	355	84	2.81	0.5	8.409	1.526	0	0	0	162
OCR-824	71	C	050-140-11	7.32Y	122.0	0.00	3.96	0.00	0	0	0	0	0.00	0.0	8.409	0.000	0	0	0	0
P 824	OCR-824	C	118-#8 A-C	7.32Y	122.0	0.00	3.96	0.00	0	0	0	0	0.00	0.0	8.927	0.518	0	0	0	0

Balanced Voltage Drop Report
Source: 8160

Detail

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.WM\
Title:
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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	% Loss	% Loss	mi From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru
640	OCR-640	C	118-#8 A-C	7.20Y	120.0	0.21	6.00	6.46	6	39	25	84	0.05	0.1	4.261	0.973	39	25	18	18
4033	66	ABC	098-#3/0 A	7.28Y	121.3	0.01	4.71	13.28	4	244	157	84	0.02	0.0	2.678	0.054	0	0	0	239
65	4033	ABC	098-#3/0 A	7.26Y	121.0	0.26	4.97	13.28	4	244	157	84	0.41	0.2	3.823	1.144	17	11	30	239
828	65	ABC	102-#1/0 A	7.25Y	120.8	0.19	5.16	12.36	5	226	146	84	0.31	0.1	4.654	0.831	25	16	26	209
827	828	C	117-#6 A-C	7.24Y	120.7	0.15	5.32	7.72	6	47	30	84	0.04	0.1	5.478	0.824	47	30	47	47
OCR-571	828	B	007- 50-H	7.25Y	120.8	0.00	5.16	12.31	25	75	48	84	0.00	0.0	4.654	0.000	0	0	0	58
571	OCR-571	B	110-#4 ACS	7.24Y	120.7	0.12	5.29	12.31	9	75	48	84	0.03	0.0	5.582	0.928	75	48	58	58
OCR-570	828	B	006- 35-H	7.25Y	120.8	0.00	5.16	12.93	37	79	51	84	0.00	0.0	4.654	0.000	0	0	0	78
570	OCR-570	B	117-#6 A-C	7.24Y	120.6	0.21	5.37	12.93	9	79	51	84	0.09	0.1	5.338	0.684	79	51	78	78
Feeder NO. 2		Beginning with Node Element Feeder 2																		
Feeder 2	turtle	ABC	Node	7.56Y	126.0	0.00	0.00	41.59	0	887	322	94	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	41.59	18	887	322	94	0.07	0.0	0.012	0.012	0	0	0	160
4831	8162	ABC	090-336 AC	7.55Y	125.9	0.11	0.12	41.59	8	886	322	94	0.48	0.1	0.347	0.335	0	0	0	160
4035	4831	ABC	098-#3/0 A	7.55Y	125.8	0.04	0.16	41.59	14	886	321	94	0.20	0.0	0.401	0.054	0	0	0	160
62	4035	ABC	098-#3/0 A	7.51Y	125.2	0.65	0.81	41.59	14	886	321	94	3.49	0.4	1.476	1.075	149	53	26	160
OCR-61	62	B	011- 70-L	7.51Y	125.2	0.00	0.81	12.74	18	90	32	94	0.00	0.0	1.476	0.000	0	0	0	25
61	OCR-61	B	118-#8 A-C	7.47Y	124.6	0.64	1.45	12.74	13	90	32	94	0.38	0.4	2.476	0.999	45	16	13	25
558	61	B	118-#8 A-C	7.46Y	124.4	0.20	1.65	6.30	6	44	16	94	0.05	0.1	3.410	0.934	44	16	12	12
1600	62	ABC	098-#3/0 A	7.50Y	125.0	0.15	0.96	30.33	10	643	231	94	0.61	0.1	1.780	0.304	0	0	0	109
C OCR-1603	1600	A	006- 35-H	7.50Y	125.0	0.00	0.96	32.63	93	230	82	94	0.00	0.0	1.780	0.000	0	0	0	37 C
1603	OCR-1603	A	106-#2 ACS	7.50Y	125.0	0.09	1.05	32.63	18	230	82	94	0.15	0.1	1.864	0.084	0	0	0	37
OCR-836	1603	A	051-140-63	7.50Y	125.0	0.00	1.05	12.44	9	88	31	94	0.00	0.0	1.864	0.000	0	0	0	9
836	OCR-836	A	106-#2 ACS	7.49Y	124.9	0.04	1.09	12.44	7	88	31	94	0.02	0.0	1.971	0.108	20	7	1	9
508	836	A	118-#8 A-C	7.47Y	124.6	0.34	1.43	9.63	10	68	24	94	0.12	0.2	3.022	1.050	68	24	8	8
FUSE-56	1603	A	082-25N FU	7.50Y	125.0	0.00	1.05	20.19	40	143	51	94	0.00	0.0	1.864	0.000	0	0	0	28
56	FUSE-56	A	118-#8 A-C	7.43Y	123.8	1.10	2.15	20.19	20	143	51	94	1.06	0.7	2.903	1.039	62	22	11	28
OCR-54	56	A	047-70-63	7.43Y	123.8	0.00	2.15	11.41	16	80	29	94	0.00	0.0	2.903	0.000	0	0	0	17
54	OCR-54	A	118-#8 A-C	7.34Y	122.3	1.51	3.66	11.41	11	80	29	94	0.72	0.9	6.005	3.102	58	21	10	17
OCR-844	54	A	047-70-63	7.34Y	122.3	0.00	3.66	3.05	4	21	8	93	0.00	0.0	6.005	0.000	0	0	0	7
844	OCR-844	A	118-#8 A-C	7.33Y	122.2	0.12	3.78	3.05	3	21	8	93	0.01	0.1	7.174	1.169	21	8	7	7
1601	1600	ABC	098-#3/0 A	7.48Y	124.7	0.39	1.34	19.45	6	412	148	94	0.94	0.2	3.204	1.424	101	36	16	72
1602	1601	ABC	098-#3/0 A	7.47Y	124.5	0.14	1.48	14.69	5	310	111	94	0.26	0.1	3.833	0.628	39	14	6	56
OCR-846	1602	A	006- 35-H	7.47Y	124.5	0.00	1.48	19.94	57	140	50	94	0.00	0.0	3.833	0.000	0	0	0	33
846	OCR-846	A	118-#8 A-C	7.39Y	123.1	1.40	2.89	19.94	20	140	50	94	1.04	0.7	5.930	2.098	139	50	33	33
OCR-59	1602	C	006- 35-H	7.47Y	124.5	0.00	1.48	5.32	15	37	13	94	0.00	0.0	3.833	0.000	0	0	0	5
59	OCR-59	C	118-#8 A-C	7.44Y	124.0	0.50	1.98	5.32	5	37	13	94	0.10	0.3	6.618	2.786	37	13	5	5
OCR-55	1602	C	006- 35-H	7.47Y	124.5	0.00	1.48	13.28	38	93	33	94	0.00	0.0	3.833	0.000	0	0	0	12
55	OCR-55	C	118-#8 A-C	7.42Y	123.6	0.87	2.35	13.28	13	93	33	94	0.53	0.6	5.164	1.332	50	18	4	12
845	55	C	118-#8 A-C	7.40Y	123.3	0.39	2.75	6.20	6	43	15	94	0.09	0.2	7.054	1.890	43	15	8	8
Feeder NO. 1		Beginning with Node Element Feeder 1																		
Feeder 1	turtle	ABC	Node	7.56Y	126.0	0.00	0.00	59.15	0	1261	458	94	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	59.15	26	1261	458	94	0.14	0.0	0.012	0.012	0	0	0	143
4832	8161	ABC	090-336 AC	7.55Y	125.8	0.16	0.17	59.15	11	1261	458	94	0.97	0.1	0.344	0.332	0	0	0	143
C OCR-63	4832	ABC	007- 50-H	7.55Y	125.8	0.00	0.17	59.15	118	1260	456	94	0.00	0.0	0.344	0.000	0	0	0	143 C
63	OCR-63	ABC	098-#3/0 A	7.46Y	124.3	1.51	1.68	59.15	20	1260	456	94	11.89	0.9	1.980	1.636	91	-17	40	143
OCR-57	63	C	050-140-11	7.46Y	124.3	0.00	1.68	2.03	1	15	-3	-98	0.00	0.0	1.980	0.000	0	0	0	13
57	OCR-57	C	117-#6 A-C	7.46Y	124.3	0.05	1.73	2.03	1	15	-3	-98	0.00	0.0	3.288	1.307	15	-3	13	13
815	63	ABC	098-#3/0 A	7.41Y	123.6	0.74	2.42	55.08	18	1142	463	93	5.33	0.5	2.819	0.838	64	-6	30	90
OCR-557	815	A	010- 50-L	7.41Y	123.6	0.00	2.42	8.10	16	59	-11	-98	0.00	0.0	2.819	0.000	0	0	0	53
557	OCR-557	A	110-#4 ACS	7.41Y	123.5	0.04	2.46	8.10	6	59	-11	-98	0.02	0.0	4.435	1.616	59	-11	53	53
814	815	ABC	Regulator	7.56Y	126.0	-2.42	0.00	0.44	0	10	-2	-98	0.00	0.0	2.819	0.000	0	0	0	3
91	814	ABC	098-#3/0 A	7.56Y	126.0	0.00	0.00	0.43	0	10	-2	-98	0.00	0.0	3.305	0.486	10	-2	3	3
818	815	ABC	098-#3/0 A	7.40Y	123.4	0.20	2.61	48.96	16	984	467	90	0.84	0.1	3.302	0.483	983	466	2	2
817	815	ABC	098-#3/0 A	7.41Y	123.6	0.00	2.42	1.00	0	20	9	91	0.00	0.0	3.199	0.380	20	9	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	4786	0	0	0	0	0	160	0.00	4945	Lowest Voltage = 118.63 on Element 126		
KVAR	2424	0	-1394	0	0	0	173		1203	Max Accum VoltD = 7.37 on Element 126		
										Max Elem VoltD = 3.48 on Element 559		

12/18/28

Flaherty Summer Base

Balanced Voltage Drop Report
Source: 8150

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 KW	KVAR	Cons On	Cons Thru
8150	Feeder NO. 3	ABC	SRC-8150-D	7.56Y	126.0	0.00	0.00	364.20	0	7848	2577	95	0.00	0.0	0.000	0.000	0	0	0	2254
Beginning with Node Element 8153																				
8153	8150	ABC	Node	7.56Y	126.0	0.00	0.00	115.44	0	2253	1334	86	0.00	0.0	0.000	0.000	0	0	0	659
934	8153	ABC	090-336 AC	7.53Y	125.5	0.49	0.49	115.44	22	2253	1334	86	5.01	0.2	0.450	0.450	0	0	0	659
462	934	ABC	090-336 AC	7.50Y	125.0	0.49	0.98	115.44	22	2248	1322	86	4.98	0.2	0.899	0.448	0	0	0	659
OCR-459	462	ABC	012-100-L	7.50Y	125.0	0.00	0.98	115.44	115	2243	1311	86	0.00	0.0	0.899	0.000	0	0	0	659
459	OCR-459	ABC	098-#3/0 A	7.32Y	122.0	3.06	4.04	115.44	38	2243	1311	86	43.29	1.9	2.510	1.611	185	116	65	659
OCR-458	459	A	007- 50-H	7.32Y	122.0	0.00	4.04	6.39	13	41	23	87	0.00	0.0	2.510	0.000	0	0	0	8
458	OCR-458	A	117-#6 A-C	7.31Y	121.9	0.10	4.14	6.39	5	41	23	87	0.02	0.1	3.173	0.663	41	23	8	8
OCR-4918	459	ABC	012-100-L	7.32Y	122.0	0.00	4.04	65.55	66	1248	717	87	0.00	0.0	2.510	0.000	0	0	0	362
4918	OCR-4918	ABC	098-#3/0 A	7.31Y	121.8	0.19	4.23	65.55	22	1248	717	87	1.53	0.1	2.685	0.176	96	57	30	362
4919	4918	ABC	Regulator	7.56Y	126.0	-4.23	0.00	60.46	28	1150	658	87	0.00	0.0	2.685	0.000	0	0	0	332
456	4919	ABC	098-#3/0 A	7.50Y	125.1	0.92	0.92	58.43	19	1150	658	87	6.45	0.6	3.680	0.995	177	99	65	332
947	456	ABC	098-#3/0 A	7.48Y	124.7	0.40	1.32	34.65	12	676	390	87	1.63	0.2	4.407	0.727	110	73	17	183
455	947	ABC	098-#3/0 A	7.44Y	124.0	0.70	2.02	23.62	8	462	259	87	1.96	0.4	6.311	1.903	87	48	36	140
999	455	ABC	106-#2 ACS	7.43Y	123.8	0.19	2.20	13.93	8	271	151	87	0.27	0.1	7.283	0.972	271	151	70	70
FUSE-957	455	A	082-25M FU	7.44Y	124.0	0.00	2.02	6.45	13	42	23	88	0.00	0.0	6.311	0.000	0	0	0	12
957	FUSE-957	A	106-#2 ACS	7.43Y	123.9	0.11	2.13	6.45	4	42	23	88	0.02	0.1	7.306	0.995	42	23	12	12
FUSE-955	455	C	082-25M FU	7.44Y	124.0	0.00	2.02	9.30	19	60	34	87	0.00	0.0	6.311	0.000	0	0	0	22
955	FUSE-955	C	117-#6 A-C	7.42Y	123.6	0.34	2.36	9.30	7	60	34	87	0.11	0.2	7.854	1.544	60	34	22	22
OCR-953	947	A	051-140-63	7.48Y	124.7	0.00	1.32	15.47	11	101	56	87	0.00	0.0	4.407	0.000	0	0	0	26
953	OCR-953	A	106-#2 ACS	7.47Y	124.5	0.15	1.47	15.47	9	101	56	87	0.07	0.1	4.972	0.564	101	56	26	26
457	953	ABC	106-#2 ACS	7.50Y	125.0	0.12	1.05	14.79	8	291	162	87	0.24	0.1	4.078	0.398	139	78	41	84
OCR-2457	457	B	050-140-11	7.50Y	125.0	0.00	1.05	8.55	6	56	31	87	0.00	0.0	4.078	0.000	0	0	0	14
2457	OCR-2457	B	106-#2 ACS	7.49Y	124.9	0.05	1.10	8.55	5	56	31	87	0.01	0.0	4.435	0.356	56	31	14	14
OCR-1457	457	C	050-140-11	7.50Y	125.0	0.00	1.05	14.59	10	96	53	88	0.00	0.0	4.078	0.000	0	0	0	29
1457	OCR-1457	C	106-#2 ACS	7.49Y	124.9	0.10	1.14	14.59	8	96	53	88	0.04	0.0	4.455	0.376	96	53	29	29
FUSE-950	459	C	085-50M FU	7.32Y	122.0	0.00	4.04	9.60	10	61	34	87	0.00	0.0	2.510	0.000	0	0	0	27
950	FUSE-950	C	106-#2 ACS	7.31Y	121.8	0.14	4.19	9.60	5	61	34	87	0.04	0.1	3.357	0.848	61	34	27	27
944	950	ABC	098-#3/0 A	7.30Y	121.6	0.32	4.37	28.56	10	547	306	87	1.14	0.2	3.196	0.686	40	22	7	154
4958	944	ABC	098-#3/0 A	7.29Y	121.4	0.20	4.57	17.69	6	338	189	87	0.45	0.1	3.864	0.668	0	0	0	83
OCR-952	4958	A	049-100-63	7.29Y	121.4	0.00	4.57	5.60	6	36	20	87	0.00	0.0	3.864	0.000	0	0	0	7
952	OCR-952	A	106-#2 ACS	7.28Y	121.3	0.11	4.68	5.60	3	36	20	87	0.02	0.1	4.981	1.117	36	20	7	7
OCR-951	4958	C	049-100-63	7.29Y	121.4	0.00	4.57	15.38	15	98	55	87	0.00	0.0	3.864	0.000	0	0	0	27
951	OCR-951	C	106-#2 ACS	7.28Y	121.3	0.15	4.72	15.38	9	98	55	87	0.07	0.1	4.413	0.549	98	55	27	27
OCR-948	4958	C	049-100-63	7.29Y	121.4	0.00	4.57	5.45	5	35	19	88	0.00	0.0	3.864	0.000	0	0	0	10
948	OCR-948	C	106-#2 ACS	7.28Y	121.3	0.10	4.67	5.45	3	35	19	88	0.02	0.0	4.904	1.041	35	19	10	10
OCR-946	4958	C	007- 50-H	7.29Y	121.4	0.00	4.57	26.64	53	170	95	87	0.00	0.0	3.864	0.000	0	0	0	39
946	OCR-946	C	106-#2 ACS	7.27Y	121.2	0.23	4.80	26.64	15	170	95	87	0.25	0.1	4.185	0.321	75	42	14	39
949	946	C	106-#2 ACS	7.26Y	121.0	0.24	5.04	14.86	8	94	53	87	0.11	0.1	5.096	0.911	94	53	25	25
OCR-945	944	B	007- 50-H	7.30Y	121.6	0.00	4.37	26.33	53	168	94	87	0.00	0.0	3.196	0.000	0	0	0	64
945	OCR-945	B	110-#4 ACS	7.27Y	121.2	0.47	4.83	26.33	19	168	94	87	0.26	0.2	4.951	1.755	167	93	64	64
FUSE-943	459	A	085-50M FU	7.32Y	122.0	0.00	4.04	18.51	19	118	66	87	0.00	0.0	2.510	0.000	0	0	0	43
943	FUSE-943	A	106-#2 ACS	7.31Y	121.8	0.20	4.24	18.51	10	118	66	87	0.11	0.1	3.114	0.605	118	66	43	43
Feeder NO. 4 Beginning with Node Element 8154																				
8154	8150	ABC	Node	7.56Y	126.0	0.00	0.00	69.12	0	1362	777	87	0.00	0.0	0.000	0.000	0	0	0	341
920	8154	ABC	090-336 AC	7.54Y	125.7	0.29	0.29	69.12	13	1362	777	87	1.79	0.1	0.450	0.450	0	0	0	341
OCR-933	920	ABC	012-100-L	7.54Y	125.7	0.00	0.29	69.12	69	1360	773	87	0.00	0.0	0.450	0.000	0	0	0	341
933	OCR-933	ABC	090-336 AC	7.53Y	125.4	0.28	0.57	69.12	13	1360	773	87	1.65	0.1	0.906	0.456	157	87	43	341
622	933	ABC	098-#3/0 A	7.47Y	124.5	0.96	1.52	61.17	20	1201	681	87	7.19	0.6	1.860	0.954	106	59	28	298
461	622	ABC	098-#3/0 A	7.39Y	123.2	1.25	2.77	54.72	18	1068	603	87	8.44	0.8	3.245	1.385	80	45	29	259
OCR-936	461	ABC	050-140-11	7.39Y	123.2	0.00	2.77	14.39	10	279	155	87	0.00	0.0	3.245	0.000	0	0	0	64
936	OCR-936	ABC	106-#2 ACS	7.39Y	123.1	0.11	2.89	14.39	8	279	155	87	0.21	0.1	3.594	0.349	109	61	22	64
OCR-1937	936	A	051-140-63	7.39Y	123.1	0.00	2.89	8.82	6	57	32	87	0.00	0.0	3.594	0.000	0	0	0	13
1937	OCR-1937	A	106-#2 ACS	7.38Y	123.1	0.06	2.95	8.82	5	57	32	87	0.02	0.0	4.006	0.412	57	32	13	13
OCR-1936	936	C	051-140-63	7.39Y	123.1	0.00	2.89	17.43	12	112	63	87	0.00	0.0	3.594	0.000	0	0	0	29
1936	OCR-1936	C	106-#2 ACS	7.37Y	122.9	0.26	3.14	17.43	10	112	63	87	0.14	0.1	4.433	0.840	112	63	29	29
623	461	ABC	098-#3/0 A	7.36Y	122.6	0.61	3.38	33.26	11	641	360	87	2.45	0.4	4.380	1.135	75	42	21	151
616	623	ABC	098-#3/0 A	7.34Y	122.4	0.21	3.59	29.28	10	564	316	87	0.73	0.1	4.829	1.450	89	49	21	130
938	616	ABC	098-#3/0 A	7.32Y	122.0	0.41</														

Balanced Voltage Drop Report
Source: 8150

Detail

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	Thru Cap	KW	KVAR	PF	KW Loss	KVAR Loss	mi		Element				
															From Src	Length (mi)	KW	KVAR	Cons On	Cons Thru	
H 453	452	ABC	098-#3/0 A	7.67Y	127.9	-0.29	-1.88	78.31	26	600	-1696	-33	5.55	0.9	5.035	0.417	5	3	1	208	H
H 4947	453	ABC	098-#3/0 A	7.68Y	127.9	-0.05	-1.93	78.35	26	590	-1704	-33	0.94	0.2	5.105	0.070	0	0	0	207	H
H 4948	4947	ABC	Capacitor	7.68Y	127.9	0.00	-1.93	78.35	0	589	-1705	-33	0.00	0.0	5.105	0.000	0	0	0	207	H
H OCR-450	4948	ABC	011-70-L	7.68Y	127.9	0.00	-1.93	29.55	42	589	340	87	0.00	0.0	5.105	0.000	0	0	0	207	H
H 450	OCR-450	ABC	098-#3/0 A	7.67Y	127.9	0.04	-1.89	29.55	10	589	340	87	0.16	0.0	5.191	0.086	7	4	6	207	H
H 932	450	ABC	098-#3/0 A	7.61Y	126.9	0.99	-0.90	29.21	10	582	336	87	3.44	0.6	7.326	2.135	89	59	30	201	H
H 448	932	ABC	098-#3/0 A	7.60Y	126.7	0.23	-0.67	24.55	8	489	274	87	0.66	0.1	7.930	0.604	97	54	24	171	H
H 724	448	ABC	098-#3/0 A	7.58Y	126.3	0.34	-0.33	15.68	5	312	174	87	0.53	0.2	9.822	1.891	206	115	67	111	H
H 4032	724	A	118-#8 A-C	7.57Y	126.1	0.22	-0.11	15.96	16	106	59	87	0.19	0.2	10.045	0.223	13	7	2	44	H
H OCR-245	4032	A	005-25-H	7.57Y	126.1	0.00	-0.11	13.97	56	92	51	87	0.00	0.0	10.045	0.000	0	0	0	42	H
245	OCR-245	A	118-#8 A-C	7.52Y	125.4	0.71	0.60	13.97	14	92	51	87	0.37	0.4	11.573	1.528	92	51	42	42	H
H OCR-449	448	B	005-25-H	7.60Y	126.7	0.00	-0.67	12.00	48	80	44	88	0.00	0.0	7.930	0.000	0	0	0	36	H
H 449	OCR-449	B	106-#2 ACS	7.57Y	126.1	0.54	-0.14	12.00	7	80	44	88	0.20	0.3	10.471	2.541	79	44	36	36	H
H FUSE-930	927	A	082-25M FU	7.60Y	126.6	0.00	-0.61	5.51	11	37	20	88	0.00	0.0	3.027	0.000	0	0	0	14	H
H 930	FUSE-930	A	110-#4 ACS	7.59Y	126.6	0.05	-0.57	5.51	4	37	20	88	0.01	0.0	3.852	0.826	37	20	14	14	H
H OCR-929	927	C	006-35-H	7.60Y	126.6	0.00	-0.61	9.26	26	61	34	87	0.00	0.0	3.027	0.000	0	0	0	27	H
929	OCR-929	C	118-#8 A-C	7.55Y	125.8	0.83	0.22	9.26	9	61	34	87	0.29	0.5	5.723	2.696	61	34	27	27	H
Feeder NO. 1 Beginning with Node Element 8151																					
8151	8150	ABC	Node	7.56Y	126.0	0.00	0.00	126.66	0	2467	1472	86	0.00	0.0	0.000	0.000	0	0	0	624	
913	8151	ABC	003-1000MC	7.56Y	126.0	0.01	0.01	126.66	22	2467	1472	86	0.08	0.0	0.010	0.010	0	0	0	624	
912	913	ABC	074-795 AC	7.53Y	125.5	0.54	0.55	126.66	14	2467	1471	86	3.38	0.1	0.734	0.724	364	352	18	624	
464	912	ABC	074-795 AC	7.45Y	124.2	1.23	1.78	105.03	12	2100	1102	89	7.15	0.3	2.695	1.961	140	78	56	606	
910	464	ABC	074-795 AC	7.45Y	124.2	0.03	1.81	26.02	3	507	286	87	0.04	0.0	2.861	0.165	0	0	0	180	
OCR-914	910	ABC	012-100-L	7.45Y	124.2	0.00	1.81	26.02	26	507	286	87	0.00	0.0	2.861	0.000	0	0	0	180	
914	OCR-914	ABC	098-#3/0 A	7.43Y	123.9	0.28	2.09	26.02	9	507	286	87	0.89	0.2	3.501	0.641	34	19	11	180	
454	914	ABC	098-#3/0 A	7.37Y	122.9	1.05	3.14	24.26	8	472	265	87	2.94	0.6	6.425	2.923	127	71	45	169	
OCR-440	454	ABC	011-70-L	7.37Y	122.9	0.00	3.14	16.52	24	319	179	87	0.00	0.0	6.425	0.000	0	0	0	118	
440	OCR-440	ABC	106-#2 ACS	7.33Y	122.2	0.67	3.81	16.52	9	319	179	87	1.65	0.5	7.973	1.548	30	17	8	118	
OCR-438	440	C	061-50-4H	7.33Y	122.2	0.00	3.81	32.52	65	208	117	87	0.00	0.0	7.973	0.000	0	0	0	68	
438	OCR-438	C	106-#2 ACS	7.24Y	120.6	1.59	5.40	32.52	18	208	117	87	2.21	1.1	9.569	1.596	53	29	24	68	
923	438	C	106-#2 ACS	7.21Y	120.2	0.40	5.80	16.23	9	103	57	87	0.29	0.3	10.324	0.755	14	8	2	8	
OCR-437	923	C	051-140-63	7.21Y	120.2	0.00	5.80	5.73	4	36	20	87	0.00	0.0	10.324	0.000	0	0	0	23	
437	OCR-437	C	117-#6 A-C	7.20Y	120.0	0.22	6.02	5.73	4	36	20	87	0.04	0.1	11.930	1.606	36	20	8	8	
OCR-924	923	C	051-140-63	7.21Y	120.2	0.00	5.80	8.26	6	52	29	87	0.00	0.0	10.324	0.000	0	0	0	13	
924	OCR-924	C	106-#2 ACS	7.20Y	120.0	0.20	6.00	8.26	5	52	29	87	0.07	0.1	11.089	0.764	9	5	3	13	
925	924	C	117-#6 A-C	7.20Y	119.9	0.05	6.05	6.80	5	43	24	87	0.01	0.0	11.408	0.319	43	24	10	10	
439	925	C	117-#6 A-C	7.22Y	120.4	0.21	5.60	7.97	6	50	28	87	0.06	0.1	10.659	1.090	50	28	21	21	
OCR-537	440	A	061-50-4H	7.33Y	122.2	0.00	3.81	12.35	25	79	44	87	0.00	0.0	7.973	0.000	0	0	0	42	
537	OCR-537	A	106-#2 ACS	7.31Y	121.8	0.40	4.21	12.35	7	79	44	87	0.15	0.2	9.804	1.830	79	44	42	42	
OCR-919	454	C	049-100-63	7.37Y	122.9	0.00	3.14	3.54	4	23	13	87	0.00	0.0	6.425	0.000	0	0	0	6	
919	OCR-919	C	118-#8 A-C	7.37Y	122.8	0.08	3.22	3.54	4	23	13	87	0.01	0.0	7.123	0.698	23	13	6	6	
906	464	ABC	090-336 AC	7.39Y	123.2	1.02	2.80	71.91	14	1446	702	90	6.66	0.5	4.413	1.718	170	95	52	370	
OCR-467	906	ABC	012-100-L	7.39Y	123.2	0.00	2.80	63.18	63	1270	592	91	0.00	0.0	4.413	0.000	0	0	0	318	
467	OCR-467	ABC	098-#3/0 A	7.27Y	121.2	2.01	4.81	63.18	21	1270	592	91	15.56	1.2	6.531	2.118	226	126	82	318	
FUSE-466	467	A	082-25M FU	7.27Y	121.2	0.00	4.81	18.60	37	118	66	87	0.00	0.0	6.531	0.000	0	0	0	31	
466	FUSE-466	A	118-#8 A-C	7.22Y	120.3	0.89	5.70	18.60	19	118	66	87	0.62	0.5	7.964	1.433	118	66	31	31	
4040	467	ABC	098-#3/0 A	7.26Y	121.0	0.17	4.98	42.54	14	858	354	92	0.92	0.1	6.785	0.254	77	43	12	186	
P 4039	4040	ABC	090-336 AC	7.26Y	121.0	0.00	4.98	0.00	0	0	0	0	0.00	0.0	6.803	0.018	0	0	0	0	P
986	4040	ABC	098-#3/0 A	7.26Y	121.0	0.03	5.01	30.80	10	632	226	94	0.12	0.0	6.842	0.057	0	0	0	145	
468	986	ABC	098-#3/0 A	7.24Y	120.6	0.38	5.39	30.80	10	632	226	94	1.47	0.2	7.775	0.932	168	101	50	145	
1200	468	ABC	Capacitor	7.24Y	120.6	0.00	5.39	7.10	0	144	-54	-94	0.00	0.0	7.775	0.000	0	0	0	25	
OCR-879	1200	ABC	007-50-H	7.24Y	120.6	0.00	5.39	8.02	16	144	97	83	0.00	0.0	7.775	0.000	0	0	0	25	
879	OCR-879	ABC	098-#3/0 A	7.23Y	120.6	0.05	5.44	8.02	3	144	97	83	0.03	0.0	8.503	0.729	144	97	25	25	
1884	468	ABC	106-#2 ACS	7.23Y	120.6	0.04	5.43	11.26	6	214	119	87	0.06	0.0	7.954	0.179	121	68	20	38	
OCR-884	1884	B	050-140-11	7.23Y	120.6	0.00	5.43	14.56	10	92	51	87	0.00	0.0	7.954	0.000	0	0	0	18	
884	OCR-884	B	106-#2 ACS	7.22Y	120.4	0.16	5.59	14.56	8	92	51	87	0.07	0.1	8.561	0.607	92	51	18	18	
OCR-885	468	B	049-100-63	7.24Y	120.6	0.00	5.39	16.47	16	104	58	87	0.00	0.0	7.775	0.000	0	0	0	32	

FORSVILLE SUMMER BASE

Balanced Voltage Drop Report
Source: 8100

Detail

Database: S:\MILSOFT 2005\DATA\DROE2.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 From Src	Length (mi)	Element KW	KVAR	Cons On	Cons Thru
8100		ABC	SRC-8100-D		7.56Y 126.0	0.00	0.00	283.34	0	6105	2006	95	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	107.79	0	2114	1228	86	0.00	0.0	0.000	0.000	0	0	0	264
492	8104	ABC	098-#3/0 A		7.36Y 122.6	3.36	3.36	107.79	36	2114	1228	86	45.72	2.2	1.814	1.814	62	35	2	264
491	492	ABC	098-#3/0 A		7.28Y 121.4	1.23	4.60	104.58	35	2006	1142	87	16.29	0.8	2.501	0.687	1410	1383	11	262
OCR-15	491	ABC	012-100-L		7.28Y 121.4	0.00	4.60	29.07	29	580	-259	-91	0.00	0.0	2.501	0.000	0	0	0	251
15	OCR-15	ABC	110-#4 ACS		7.28Y 121.4	0.02	4.62	29.07	21	580	-259	-91	0.76	0.1	3.252	0.751	20	1	9	251
4015	15	ABC	106-#2 ACS		7.27Y 121.2	0.14	4.76	28.28	16	560	-262	-91	1.12	0.2	3.582	0.330	23	2	13	242
9	4015	ABC	098-#3/0 A		7.26Y 121.0	0.21	4.97	27.17	9	531	-264	-90	2.66	0.5	5.240	1.658	133	8	48	229
1009	9	ABC	Capacitor		7.26Y 121.0	0.00	4.97	22.11	0	395	-276	-82	0.00	0.0	5.240	0.000	0	0	0	181
1010	1009	ABC	106-#2 ACS		7.25Y 120.8	0.21	5.19	18.19	10	395	30	100	0.67	0.2	5.718	0.478	20	1	7	181
OCR-8	1010	C	006-35-H		7.25Y 120.8	0.00	5.19	9.60	27	69	5	100	0.00	0.0	5.718	0.000	0	0	0	26
8	OCR-8	C	106-#2 ACS		7.22Y 120.4	0.40	5.59	9.60	5	69	5	100	0.22	0.3	7.165	1.447	69	4	26	26
7	1010	ABC	106-#2 ACS		7.21Y 120.1	0.67	5.86	14.08	8	305	23	100	1.63	0.5	7.660	1.942	155	13	80	148
4026	7	A	106-#2 ACS		7.21Y 120.1	0.04	5.90	10.27	6	74	5	100	0.02	0.0	7.799	0.139	6	0	4	34
851	4026	A	Regulator		7.56Y 126.0	-5.90	0.00	9.48	3	68	4	100	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	9.04	26	68	4	100	0.00	0.0	7.799	0.000	0	0	0	30
1	OCR-1	A	106-#2 ACS		7.53Y 125.5	0.53	0.53	9.04	5	68	4	100	0.27	0.4	9.816	2.017	68	4	30	30
4017	7	ABC	106-#2 ACS		7.21Y 120.1	0.03	5.89	3.45	2	74	5	100	0.02	0.0	8.021	0.362	14	1	6	34
OCR-4	4017	ABC	007-50-H		7.21Y 120.1	0.00	5.89	2.78	6	60	4	100	0.00	0.0	8.021	0.000	0	0	0	29
4	OCR-4	ABC	106-#2 ACS		7.20Y 120.1	0.06	5.95	2.78	2	60	4	100	0.03	0.1	8.944	0.923	58	4	22	28
3	4	ABC	110-#4 ACS		7.20Y 120.1	0.00	5.95	0.09	0	2	0	100	0.00	0.0	10.148	1.204	2	0	6	6
P 4016	4015	ABC	098-#3/0 A		7.27Y 121.2	0.00	4.76	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	27.83	0	629	52	100	0.00	0.0	0.000	0.000	0	0	0	253
52	8103	ABC	116-4-ACWC		7.45Y 124.2	1.81	1.81	27.83	15	629	52	100	8.71	1.4	2.686	2.686	56	3	23	253
FUSE-51	52	C	082-25N FU		7.45Y 124.2	0.00	1.81	6.43	13	48	3	100	0.00	0.0	2.686	0.000	0	0	0	20
51	FUSE-51	C	118-#8 A-C		7.39Y 123.2	0.96	2.78	6.43	6	48	3	100	0.36	0.8	5.040	2.354	47	3	20	20
50	51	ABC	116-4-ACWC		7.36Y 122.7	1.44	3.25	22.14	12	493	39	100	5.51	1.1	5.374	2.688	92	6	38	200
REG3	50	ABC	Regulator		7.56Y 126.0	-3.25	0.00	17.96	11	396	30	100	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	12.86	18	291	22	100	0.00	0.0	5.374	0.000	0	0	0	116
47	OCR-47	ABC	116-4-ACWC		7.54Y 125.6	0.37	0.37	12.86	7	291	22	100	0.81	0.3	6.552	1.177	34	2	11	116
C OCR-34	47	A	006-35-H		7.54Y 125.6	0.00	0.37	26.72	76	201	16	100	0.00	0.0	6.552	0.000	0	0	0	89 C
34	OCR-34	A	106-#2 ACS		7.38Y 123.0	2.59	2.96	26.72	15	201	16	100	3.92	2.0	9.895	3.344	74	5	40	89
36	34	A	106-#2 ACS		7.35Y 122.5	0.50	3.46	13.24	7	98	7	100	0.38	0.4	11.215	1.319	39	2	14	36
OCR-33	36	A	049-100-63		7.35Y 122.5	0.00	3.46	7.19	7	53	3	100	0.00	0.0	11.215	0.000	0	0	0	21
33	OCR-33	A	118-#8 A-C		7.29Y 121.6	0.99	4.45	7.19	7	53	3	100	0.42	0.8	13.376	2.161	29	2	13	21
32	33	A	117-#6 A-C		7.28Y 121.4	0.19	4.64	3.20	2	23	1	100	0.03	0.1	14.756	1.381	23	1	8	8
1137	36	A	106-#2 ACS		7.35Y 122.5	0.00	3.46	0.78	0	6	0	100	0.00	0.0	11.408	0.193	6	0	1	1
OCR-35	34	A	049-100-63		7.38Y 123.0	0.00	2.96	3.49	3	26	2	100	0.00	0.0	9.895	0.000	0	0	0	13
35	OCR-35	A	118-#8 A-C		7.35Y 122.6	0.48	3.43	3.49	3	26	2	100	0.10	0.4	12.051	2.155	26	2	13	13
4024	47	A	117-#6 A-C		7.53Y 125.5	0.15	0.51	7.30	5	55	4	100	0.06	0.1	7.025	0.473	10	1	2	16
OCR-46	4024	A	006-35-H		7.53Y 125.5	0.00	0.51	5.93	17	45	3	100	0.00	0.0	7.025	0.000	0	0	0	14
46	OCR-46	A	117-#6 A-C		7.49Y 124.9	0.61	1.13	5.93	4	45	3	100	0.21	0.5	9.463	2.438	44	3	14	14
49	REG3	ABC	117-#6 A-C		7.56Y 125.9	0.00	0.08	4.63	3	105	7	100	0.06	0.1	5.829	0.455	11	1	4	46
OCR-769	49	B	006-35-H		7.56Y 125.9	0.00	0.08	12.39	35	93	7	100	0.00	0.0	5.829	0.000	0	0	0	42
769	OCR-769	B	117-#6 A-C		7.48Y 124.7	1.22	1.30	12.39	9	93	7	100	0.87	0.9	8.152	2.323	23	1	11	42
48	769	B	117-#6 A-C		7.40Y 123.3	1.35	2.65	9.26	7	69	5	100	0.73	1.0	11.602	3.450	68	4	31	31
P 1152	52	ABC	116-4-ACWC		7.45Y 124.2	0.00	1.81	0.00	0	0	0	0	0.00	0.0	2.688	0.002	0	0	0	0 P
FUSE-768	52	A	083-30N FU		7.45Y 124.2	0.00	1.81	3.17	5	24	2	100	0.00	0.0	2.686	0.000	0	0	0	10
768	FUSE-768	A	117-#6 A-C		7.44Y 124.0	0.21	2.02	3.17	2	24	2	100	0.04	0.2	4.259	1.573	24	1	10	10
----- Feeder NO. 2 Beginning with Node Element 8102																				
8102	8100	ABC	Node		7.56Y 126.0	0.00	0.00	26.68	0	603	48	100	0.00	0.0	0.000	0.000	0	0	0	238
39	8102	ABC	090-336 AC		7.56Y 125.9	0.05	0.05	26.68	5	603	48	100	0.21	0.0	0.348	0.348	26	2	4	238
38	39	ABC	116-4-ACWC		7.46Y 124.3	1.64	1.69	25.52	14	577	46	100	7.21	1.3	2.995	2.648	88	6	36	234
OCR-37	38	A	007-50-H		7.46Y 124.3	0.00	1.69	1.69	3	13	1	100	0.00	0.0	2.995	0.000	0	0	0	8
37	OCR-37	A	106-#2 ACS		7.45Y 124.2	0.10	1.79	1.69	1	13	1	100	0.01	0.0	5.037	2.041	13	1	8	8
544	38	ABC	106-#2 ACS		7.34Y 122.3	2.04	3.73	21.02	12	469	35	100	7.42	1.6	6.965	3.970	101	6	24	190
FUSE-543	544	A	083-30N FU		7.34Y 122.3	0.00	3.73	3.98	7	29	2	100	0.00	0.0	6.965	0.000	0	0	0	13
543	FUSE-543	A	106-#2 ACS		7.33Y 122.1	0.18	3.91	3.98	2	29	2	100	0.04	0.1	8.557	1.592	29	2	13	13
31	544	ABC	106-#2 ACS																	

Balanced Voltage Drop Report
Source: 8100

Detail

Database: S:\MILSOFT 2005\DATA\BPOE2.RM
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 From Src	Element				
																Length (mi)	KW	KVAR	Cons On	Cons Thru
20	8101	ABC	090-336 AC	7.42Y	123.7	2.26	2.26	133.95	25	2759	1271	91	29.22	1.1	1.953	1.953	245	114	75	615
855	20	ABC	098-#3/0 A	7.42Y	123.7	0.06	2.31	104.97	35	2088	1052	89	0.77	0.0	1.985	0.032	15	1	2	282
777	855	ABC	Capacitor	7.42Y	123.7	0.00	2.31	104.33	0	2072	1050	89	0.00	0.0	1.985	0.000	0	0	0	280
4014	777	ABC	098-#3/0 A	7.40Y	123.3	0.40	2.72	110.73	37	2072	1336	84	5.54	0.3	2.193	0.208	25	2	4	280
C OCR-19	4014	ABC	012-100-L	7.40Y	123.3	0.00	2.72	109.75	110	2041	1329	84	0.00	0.0	2.193	0.000	0	0	0	276 C
19	OCR-19	ABC	090-336 AC	7.36Y	122.6	0.65	3.37	109.75	21	2041	1329	84	6.13	0.3	2.804	0.610	282	225	2	276
18	19	ABC	098-#3/0 A	7.33Y	122.2	0.41	3.78	88.03	29	1616	1079	83	4.51	0.3	3.072	0.269	1198	1044	12	200
OCR-4108	18	ABC	011- 70-L	7.33Y	122.2	0.00	3.78	18.84	27	413	29	100	0.00	0.0	3.072	0.000	0	0	0	188
4108	OCR-4108	ABC	098-#3/0 A	7.32Y	122.0	0.21	3.99	18.84	6	413	29	100	0.65	0.2	3.915	0.842	17	1	6	188
OCR-542	4108	ABC	011- 70-L	7.32Y	122.0	0.00	3.99	18.05	26	396	28	100	0.00	0.0	3.915	0.000	0	0	0	182
542	OCR-542	ABC	098-#3/0 A	7.30Y	121.7	0.34	4.33	18.05	6	396	28	100	1.04	0.3	5.379	1.464	94	6	47	182
OCR-14	542	ABC	010- 50-L	7.30Y	121.7	0.00	4.33	13.74	27	300	20	100	0.00	0.0	5.379	0.000	0	0	0	135
14	OCR-14	ABC	098-#3/0 A	7.28Y	121.4	0.27	4.60	13.74	5	300	20	100	0.63	0.2	6.916	1.537	48	3	18	135
4025	14	ABC	106-#2 ACS	7.28Y	121.3	0.14	4.74	11.55	6	252	17	100	0.27	0.1	7.398	0.482	4	0	2	117
OCR-13	4025	C	005- 25-H	7.28Y	121.3	0.00	4.74	13.43	54	98	7	100	0.00	0.0	7.398	0.000	0	0	0	53
13	OCR-13	C	117-#6 A-C	7.21Y	120.1	1.18	5.92	13.43	10	98	7	100	0.91	0.9	9.465	2.067	97	6	53	53
12	4025	ABC	098-#3/0 A	7.27Y	121.2	0.09	4.83	6.87	2	150	10	100	0.10	0.1	8.380	0.981	28	2	7	62
OCR-11	12	A	005- 25-H	7.27Y	121.2	0.00	4.83	7.15	29	52	3	100	0.00	0.0	8.380	0.000	0	0	0	20
11	OCR-11	A	118-#8 A-C	7.21Y	120.1	1.03	5.86	7.15	7	52	3	100	0.43	0.8	10.645	2.265	51	3	20	20
6	12	ABC	098-#3/0 A	7.27Y	121.1	0.05	4.87	3.20	1	70	4	100	0.02	0.0	9.488	1.108	70	4	35	35
OCR-17	19	A	007- 50-H	7.36Y	122.6	0.00	3.37	18.60	37	137	10	100	0.00	0.0	2.804	0.000	0	0	0	74
17	OCR-17	A	106-#2 ACS	7.31Y	121.8	0.82	4.19	18.60	10	137	10	100	0.87	0.6	4.330	1.527	33	2	21	74
16	17	A	106-#2 ACS	7.23Y	120.5	1.29	5.48	14.08	8	103	7	100	1.03	1.0	7.498	3.167	102	6	53	53
FUSE-767	20	A	083-30W FU	7.42Y	123.7	0.00	2.26	11.45	19	85	5	100	0.00	0.0	1.953	0.000	0	0	0	45
767	FUSE-767	A	117-#6 A-C	7.40Y	123.3	0.42	2.68	11.45	8	85	5	100	0.28	0.3	2.817	0.864	85	5	45	45
766	20	ABC	106-#2 ACS	7.41Y	123.6	0.17	2.42	14.09	8	312	32	99	0.40	0.1	2.429	0.476	312	32	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	5943	0	0	0	0	0	162	0.00	6105	Lowest Voltage = 120.01	on Element 41
KVAR	2990	0	-1185	0	0	0	201		2006	Max Accm VoltD = 5.99	on Element 41
										Max Elem VoltD = 3.36	on Element 492

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GARRETT SUMMER BASE

Detail

Balanced Voltage Drop Report
Source: 8120

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

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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	Feeder NO. 5	ABC	SRC-8120-D	7.56Y	126.0	0.00	0.00	361.31	0	7457	3398	91	0.00	0.0	0.000	0.000	0	0	0	0	2007
8125	8120	ABC	Node	7.56Y	126.0	0.00	0.00	2.42	0	50	23	91	0.00	0.0	0.000	0.000	0	0	0	0	2
574	8125	ABC	074-795 AC	7.56Y	126.0	0.02	0.02	2.42	0	50	23	91	0.00	0.0	1.595	1.595	50	23	2	2	
8126	8120	ABC	Node	7.56Y	126.0	0.00	0.00	98.41	0	2031	926	91	0.00	0.0	0.000	0.000	0	0	0	0	554
447	8126	ABC	098-#3/0 A	7.42Y	123.7	2.25	2.25	98.41	33	2031	926	91	29.02	1.4	1.381	1.381	213	87	55	554	
446	447	ABC	106-#2 ACS	7.40Y	123.3	0.45	2.70	17.95	10	361	172	90	1.25	0.3	2.299	0.917	305	148	65	80	
FUSE-856	446	B	085-50N FU	7.40Y	123.3	0.00	2.70	8.07	8	55	23	92	0.00	0.0	2.299	0.000	0	0	0	15	
856	FUSE-856	B	117-#6 A-C	7.39Y	123.2	0.10	2.80	8.07	6	55	23	92	0.04	0.1	2.559	0.261	55	23	15	15	
OCR-445	447	B	061-50-4H	7.42Y	123.7	0.00	2.25	21.09	42	145	60	92	0.00	0.0	1.381	0.000	0	0	0	48	
445	OCR-445	B	117-#6 A-C	7.30Y	121.6	2.11	4.36	21.09	15	145	60	92	2.33	1.6	3.515	2.134	84	34	33	48	
OCR-857	445	B	051-140-63	7.30Y	121.6	0.00	4.36	8.68	6	59	24	93	0.00	0.0	3.515	0.000	0	0	0	15	
857	OCR-857	B	118-#8 A-C	7.28Y	121.3	0.37	4.74	8.68	9	59	24	93	0.18	0.3	4.157	0.642	14	6	3	15	
858	857	B	106-#2 ACS	7.26Y	121.1	0.18	4.92	6.61	4	44	18	93	0.06	0.1	4.959	0.802	44	18	12	12	
OCR-441	447	A	007-50-H	7.42Y	123.7	0.00	2.25	22.43	45	154	63	93	0.00	0.0	1.381	0.000	0	0	0	64	
441	OCR-441	A	117-#6 A-C	7.31Y	121.8	1.96	4.21	22.43	16	154	63	93	2.30	1.5	3.243	1.862	152	62	64	64	
572	447	ABC	113-2F 7/1	7.33Y	122.2	1.51	3.76	55.63	33	1129	511	91	11.52	1.0	2.798	1.417	116	47	28	307	
436	572	ABC	113-2F 7/1	7.29Y	121.5	0.74	4.50	34.32	20	683	321	91	3.46	0.5	3.916	1.118	43	17	9	186	
FUSE-893	436	C	082-25N FU	7.29Y	121.5	0.00	4.50	17.54	35	118	49	92	0.00	0.0	3.916	0.000	0	0	0	33	
893	FUSE-893	C	110-#4 ACS	7.27Y	121.2	0.25	4.76	17.54	13	118	49	92	0.15	0.1	4.696	0.780	118	48	33	33	
OCR-578	436	A	007-50-H	7.29Y	121.5	0.00	4.50	17.39	35	117	48	93	0.00	0.0	3.916	0.000	0	0	0	43	
578	OCR-578	A	118-#8 A-C	7.12Y	118.7	2.78	7.28	17.39	17	117	48	93	2.68	2.3	6.293	2.377	115	47	43	43	
575	436	ABC	113-2F 7/1	7.26Y	121.0	0.51	5.01	20.60	12	402	204	89	1.40	0.3	5.175	1.259	75	31	23	101	
433	575	ABC	113-2F 7/1	7.25Y	120.9	0.08	5.09	3.50	2	71	29	93	0.04	0.1	6.377	1.201	70	29	19	19	
958	575	ABC	098-#3/0 A	7.25Y	120.9	0.11	5.11	8.18	3	148	99	83	0.11	0.1	5.907	0.731	84	73	6	27	
OCR-435	958	B	007-50-H	7.25Y	120.9	0.00	5.11	9.54	19	64	26	93	0.00	0.0	5.907	0.000	0	0	0	21	
435	OCR-435	B	106-#2 ACS	7.24Y	120.6	0.28	5.39	9.54	5	64	26	93	0.13	0.2	6.766	0.859	8	3	5	21	
895	435	B	106-#2 ACS	7.22Y	120.3	0.35	5.75	8.32	5	56	23	93	0.14	0.3	8.014	1.248	56	23	16	16	
FUSE-894	575	A	082-25N FU	7.26Y	121.0	0.00	5.01	15.82	32	106	44	92	0.00	0.0	5.175	0.000	0	0	0	32	
894	FUSE-894	A	110-#4 ACS	7.25Y	120.8	0.19	5.20	15.82	11	106	44	92	0.10	0.1	5.823	0.648	106	43	32	32	
892	572	A	110-#4 ACS	7.31Y	121.9	0.39	4.15	17.30	12	117	48	93	0.23	0.2	4.010	1.211	117	48	35	35	
OCR-890	572	C	007-50-H	7.33Y	122.2	0.00	3.76	29.58	59	201	83	92	0.00	0.0	2.798	0.000	0	0	0	58	
890	OCR-890	C	106-#2 ACS	7.27Y	121.2	1.01	4.77	29.58	16	201	83	92	1.44	0.7	3.801	1.002	93	38	31	58	
515	890	C	106-#2 ACS	7.24Y	120.6	0.58	5.35	15.82	9	106	44	92	0.44	0.4	4.873	1.072	84	34	23	27	
FUSE-444	515	C	082-25N FU	7.24Y	120.6	0.00	5.35	3.27	7	22	9	93	0.00	0.0	4.873	0.000	0	0	0	4	
444	FUSE-444	C	118-#8 A-C	7.23Y	120.5	0.19	5.54	3.27	3	22	9	93	0.03	0.2	5.726	0.853	22	9	4	4	
P 891	515	C	118-#8 A-C	7.24Y	120.6	0.00	5.35	0.00	0	0	0	0	0.00	0.0	5.498	0.625	0	0	0	0	P
8124	8120	ABC	Node	7.56Y	126.0	0.00	0.00	36.37	0	750	342	91	0.00	0.0	0.000	0.000	0	0	0	0	199
471	8124	ABC	098-#3/0 A	7.50Y	125.0	0.96	0.96	36.37	12	750	342	91	4.57	0.6	1.592	1.592	132	76	39	199	
470	471	ABC	098-#3/0 A	7.47Y	124.5	0.58	1.54	29.64	10	614	261	92	2.26	0.4	2.777	1.185	113	48	23	160	
1905	470	ABC	098-#3/0 A	7.46Y	124.3	0.21	1.65	11.44	4	236	100	92	0.17	0.1	3.391	0.614	110	46	28	60	
OCR-1906	1905	C	049-100-63	7.46Y	124.3	0.00	1.65	18.34	18	126	53	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	0.34	1.99	18.34	13	126	53	92	0.32	0.3	3.784	0.393	126	53	32	32	
OCR-898	470	B	011-70-L	7.47Y	124.5	0.00	1.54	33.55	48	231	98	92	0.00	0.0	2.777	0.000	0	0	0	68	
898	OCR-898	B	098-#3/0 A	7.42Y	123.6	0.82	2.36	33.55	11	231	98	92	1.14	0.5	3.877	1.099	229	97	68	68	
FUSE-867	470	C	082-25N FU	7.47Y	124.5	0.00	1.54	4.64	9	32	13	93	0.00	0.0	2.777	0.000	0	0	0	9	
867	FUSE-867	C	118-#8 A-C	7.46Y	124.3	0.18	1.72	4.64	5	32	13	93	0.05	0.1	3.368	0.590	32	13	9	9	
8123	8120	ABC	Node	7.56Y	126.0	0.00	0.00	138.05	0	2849	1298	91	0.00	0.0	0.000	0.000	0	0	0	0	713
480	8123	ABC	098-#3/0 A	7.34Y	122.3	3.67	3.67	138.05	46	2849	1298	91	66.54	2.3	1.610	1.610	185	80	62	713	
OCR-1872	480	B	050-140-11	7.34Y	122.3	0.00	3.67	11.51	8	78	34	92	0.00	0.0	1.610	0.000	0	0	0	27	
1872	OCR-1872	B	117-#6 A-C	7.31Y	121.9	0.45	4.13	11.51	8	78	34	92	0.27	0.3	2.444	0.834	77	33	27	27	
873	480	ABC	098-#3/0 A	7.31Y	121.9	0.42	4.09	114.69	38	2311	1019	91	6.27	0.3	1.830	0.220	28	12	6	558	
479	873	ABC	098-#3/0 A	7.30Y	121.6	0.27	4.36	15.46	5	311	135	92	0.55	0.2	2.896	1.067	233	101	62	84	
OCR-875	479	C	007-50-H	7.30Y	121.6	0.00	4.36	11.57	23	77	34	91	0.00	0.0	2.896	0.000	0	0	0	22	
875	OCR-875	C	106-#2 ACS	7.26Y	121.1	0.56	4.92	11.57	6	77	34	91	0.31	0.4	4.302	1.405	77	33	22	22	
4037	873	ABC	098-#3/0 A	7.31Y	121.8	0.16	4.25	84.65	28	1700	750	91	1.75	0.1	1.942	0.113	38	17	5	403	
4038	4037	ABC	Regulator	7.56Y	126.0	-4.25	0.00	82.74	38	1660	731	92	0.00	0.0	1.942	0.000	0	0	0	398	
OCR-876	4038	ABC	012-100-L	7.56Y	126.0																

Balanced Voltage Drop Report
Source: 8120

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

Units Displayed In Volts -Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri	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-877	876	C	085-50N FU		7.49Y 124.8	0.00	1.24	10.90	11	75	32	92	0.00	0.0	2.884	0.000	0	0	0	18
877	FUSE-877	C	106-#2 ACS		7.46Y 124.4	0.37	1.61	10.90	6	75	32	92	0.19	0.3	3.873	0.989	75	32	18	18
FUSE-874	873	ABC	082-25N FU		7.31Y 121.9	0.00	4.09	13.17	26	265	115	92	0.00	0.0	1.830	0.000	0	0	0	65
874	FUSE-874	ABC	098-#3/0 A		7.29Y 121.5	0.44	4.53	13.17	4	265	115	92	0.76	0.3	3.845	2.016	264	114	65	65
OCR-872	480	A	007-50-H		7.34Y 122.3	0.00	3.67	16.65	33	112	49	92	0.00	0.0	1.610	0.000	0	0	0	33
872	OCR-872	A	106-#2 ACS		7.30Y 121.7	0.67	4.34	16.65	9	112	49	92	0.53	0.5	2.777	1.167	112	48	33	33
OCR-871	480	C	061-50-4H		7.34Y 122.3	0.00	3.67	14.51	29	98	42	92	0.00	0.0	1.610	0.000	0	0	0	33
871	OCR-871	C	106-#2 ACS		7.30Y 121.7	0.62	4.29	14.51	8	98	42	92	0.43	0.4	2.853	1.244	97	42	33	33
----- Feeder NO. 2 Beginning with Node Element 8122 -----																				
8122	8120	ABC	Node		7.56Y 126.0	0.00	0.00	24.24	0	500	228	91	0.00	0.0	0.000	0.000	0	0	0	153
FUSE-573	8122	ABC	082-25N FU		7.56Y 126.0	0.00	0.00	24.24	48	500	228	91	0.00	0.0	0.000	0.000	0	0	0	153
573	FUSE-573	ABC	098-#3/0 A		7.46Y 124.4	1.61	1.61	24.24	8	500	228	91	5.12	1.0	4.016	4.016	385	173	125	153
FUSE-860	573	B	082-25N FU		7.46Y 124.4	0.00	1.61	16.22	32	110	50	91	0.00	0.0	4.016	0.000	0	0	0	28
860	FUSE-860	B	117-#6 A-C		7.42Y 123.7	0.71	2.33	16.22	12	110	50	91	0.60	0.5	4.949	0.933	110	49	28	28
----- Feeder NO. 1 Beginning with Node Element 8121 -----																				
8121	8120	ABC	Node		7.56Y 126.0	0.00	0.00	61.82	0	1276	582	91	0.00	0.0	0.000	0.000	0	0	0	386
432	8121	ABC	098-#3/0 A		7.51Y 125.2	0.84	0.84	61.82	21	1276	582	91	6.76	0.5	0.815	0.815	146	65	54	386
859	432	ABC	098-#3/0 A		7.43Y 123.9	1.31	2.14	54.72	18	1123	509	91	9.38	0.8	2.259	1.444	122	36	60	332
OCR-431	859	ABC	012-100-L		7.43Y 123.9	0.00	2.14	14.57	15	311	93	96	0.00	0.0	2.259	0.000	0	0	0	79
431	OCR-431	ABC	098-#3/0 A		7.41Y 123.6	0.29	2.43	14.57	5	311	93	96	0.59	0.2	3.548	1.289	99	29	27	79
863	431	ABC	106-#2 ACS		7.41Y 123.6	0.00	2.44	9.92	6	212	63	96	0.01	0.0	3.565	0.017	0	0	0	52
OCR-1863	863	ABC	050-140-11		7.41Y 123.6	0.00	2.44	9.92	7	211	63	96	0.00	0.0	3.565	0.000	0	0	0	52
1863	OCR-1863	ABC	106-#2 ACS		7.41Y 123.4	0.12	2.56	9.92	6	211	63	96	0.19	0.1	4.020	0.455	56	17	9	52
4811	1863	C	106-#2 ACS		7.39Y 123.2	0.24	2.80	11.52	6	82	24	96	0.14	0.2	4.657	0.637	82	24	23	23
4810	1863	A	106-#2 ACS		7.39Y 123.2	0.23	2.78	10.32	6	73	22	96	0.12	0.2	4.689	0.669	73	22	20	20
430	859	ABC	116-4-ACWC		7.27Y 121.2	2.62	4.77	34.72	19	681	369	88	14.18	2.1	5.069	2.810	478	304	107	193
OCR-579	430	ABC	011-70-L		7.27Y 121.2	0.00	4.77	4.27	6	89	27	96	0.00	0.0	5.069	0.000	0	0	0	27
579	OCR-579	ABC	098-#3/0 A		7.27Y 121.2	0.03	4.80	4.27	1	89	27	96	0.02	0.0	5.577	0.508	89	27	27	27
443	430	B	106-#2 ACS		7.21Y 120.1	1.11	5.88	14.25	8	99	30	96	0.79	0.8	7.445	2.376	98	29	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	7256	0	0	0	0	0	200	0.00		7457	Lowest Voltage = 118.72 on Element 578
KVAR	3188	0	0	0	0	0	210			3398	Max Accum VoltD = 7.28 on Element 578
											Max Elem VoltD = 3.67 on Element 480

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HARDINSBURG 1 SUMMER BASE

Detail

Balanced Voltage Drop Report
Source: 8600

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.WM
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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	Thru Cap	Thru KN	KVAR	PF	kW Loss	mi From Src	Element			Cons On	Cons Thru	
															Length (mi)	KW	KVAR			
8600		ABC	SRC-8600-D	7.56Y	126.0	0.00	0.00	310.44	0	6688	2201	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	107.93	0	2199	1076	90	0.00	0.0	0.000	0.000	0	0	0	469
4111	8608	ABC	098-#3/0 A	7.56Y	126.0	0.02	0.02	107.93	36	2199	1076	90	0.32	0.0	0.013	0.013	0	0	0	469
506	4111	ABC	090-336 AC	7.51Y	125.2	0.75	0.77	107.93	20	2198	1075	90	7.13	0.3	0.871	0.859	383	204	100	469
P 4119	506	ABC	098-#3/0 A	7.51Y	125.2	0.00	0.77	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	7.51Y	125.1	0.09	0.85	15.12	8	113	13	99	0.06	0.1	1.151	0.280	70	8	28	45
4011	4010	A	118-#8 A-C	7.51Y	125.1	0.03	0.88	5.77	6	43	5	99	0.01	0.0	1.295	0.144	43	5	17	17
888	506	ABC	098-#3/0 A	7.51Y	125.2	0.00	0.77	0.46	0	10	1	100	0.00	0.0	0.975	0.103	10	1	8	8
FUSE-606	506	ABC	083-30N FU	7.51Y	125.2	0.00	0.77	31.47	52	661	258	93	0.00	0.0	0.871	0.000	0	0	0	196
606	FUSE-606	ABC	098-#3/0 A	7.50Y	125.0	0.22	0.99	31.47	10	661	258	93	0.68	0.1	1.659	0.788	559	245	162	196
OCR-765	606	B	010-50-L	7.50Y	125.0	0.00	0.99	13.58	27	101	12	99	0.00	0.0	1.659	0.000	0	0	0	34
765	OCR-765	B	118-#8 A-C	7.42Y	123.7	1.27	2.26	13.58	14	101	12	99	0.66	0.7	4.546	2.887	101	11	34	34
605	506	ABC	090-336 AC	7.50Y	125.0	0.21	0.98	52.29	10	1024	583	87	0.82	0.1	1.488	0.617	546	353	63	120
FUSE-830	605	ABC	083-30N FU	7.50Y	125.0	0.00	0.98	10.53	18	214	103	90	0.00	0.0	1.488	0.000	0	0	0	2
830	FUSE-830	ABC	110-#4 ACS	7.50Y	125.0	0.00	0.99	10.53	8	214	103	90	0.00	0.0	1.537	0.049	214	103	2	2
FUSE-725	605	ABC	083-30N FU	7.50Y	125.0	0.00	0.98	13.01	22	264	126	90	0.00	0.0	1.488	0.000	0	0	0	55
725	FUSE-725	ABC	090-336 AC	7.50Y	125.0	0.06	1.04	13.01	2	264	126	90	0.05	0.0	2.490	1.002	264	126	55	55
----- Feeder NO. 7 Beginning with Node Element 8607																				
8607	8600	ABC	Node	7.56Y	126.0	0.00	0.00	8.50	0	178	75	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	8.50	3	178	75	92	0.02	0.0	0.137	0.137	0	0	0	49
489	785	ABC	090-336 AC	7.56Y	126.0	0.02	0.04	8.50	2	178	75	92	0.01	0.0	0.777	0.640	178	75	49	49
----- Feeder NO. 6 Beginning with Node Element 8606																				
8606	8600	ABC	Node	7.56Y	126.0	0.00	0.00	23.88	0	520	151	96	0.00	0.0	0.000	0.000	0	0	0	124
202	8606	ABC	098-#3/0 A	7.55Y	125.9	0.15	0.15	23.88	8	520	151	96	0.33	0.1	0.803	0.803	520	151	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	56.79	0	1272	200	99	0.00	0.0	0.000	0.000	0	0	0	366
714	8604	ABC	098-#3/0 A	7.55Y	125.8	0.22	0.22	56.79	19	1272	200	99	1.88	0.1	0.289	0.289	93	52	4	366
C OCR-164	714	ABC	003-10-H O	7.55Y	125.8	0.00	0.22	45.87	459	1031	129	99	0.00	0.0	0.289	0.000	0	0	0	314 C
164	OCR-164	ABC	116-4-ACWC	7.51Y	125.1	0.65	0.87	45.87	25	1031	129	99	5.06	0.5	0.866	0.578	6	1	1	314
P 163	164	ABC	098-#3/0 A	7.51Y	125.1	0.00	0.87	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	7.51Y	125.1	0.00	0.87	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	7.50Y	125.0	0.18	1.05	13.46	10	100	11	99	0.13	0.1	1.194	0.327	16	2	3	32
OCR-159	721	C	010-50-L	7.50Y	125.0	0.00	1.05	11.27	23	84	10	99	0.00	0.0	1.194	0.000	0	0	0	29
159	OCR-159	C	110-#4 ACS	7.49Y	124.9	0.07	1.12	11.27	8	84	10	99	0.02	0.0	2.110	0.917	84	10	29	29
OCR-179	164	ABC	038-70-E	7.51Y	125.1	0.00	0.87	41.12	59	919	114	99	0.00	0.0	0.866	0.000	0	0	0	281
179	OCR-179	ABC	098-#3/0 A	7.45Y	124.2	0.95	1.83	41.12	14	919	114	99	5.67	0.6	2.854	1.988	259	29	77	281
OCR-178	179	B	060-35-AH	7.45Y	124.2	0.00	1.83	5.41	15	40	5	99	0.00	0.0	2.854	0.000	0	0	0	16
178	OCR-178	B	118-#8 A-C	7.42Y	123.7	0.45	2.27	5.41	5	40	5	99	0.09	0.2	5.411	2.557	40	5	16	16
995	179	ABC	098-#3/0 A	7.45Y	124.1	0.08	1.91	25.16	8	558	68	99	0.32	0.1	3.089	0.235	0	0	0	168
OCR-177	995	ABC	011-70-L	7.45Y	124.1	0.00	1.91	25.16	36	558	67	99	0.00	0.0	3.089	0.000	0	0	0	168
177	OCR-177	ABC	098-#3/0 A	7.40Y	123.4	0.69	2.59	25.16	8	558	67	99	2.55	0.5	5.369	2.280	129	15	35	168
OCR-994	177	A	006-35-H	7.40Y	123.4	0.00	2.59	17.95	51	132	15	99	0.00	0.0	5.369	0.000	0	0	0	37
994	OCR-994	A	118-#8 A-C	7.35Y	122.5	0.86	3.46	17.95	18	132	15	99	0.82	0.6	6.215	0.846	32	4	5	37
992	994	A	118-#8 A-C	7.32Y	122.0	0.52	3.97	13.61	14	99	11	99	0.38	0.4	6.854	0.639	17	2	3	32
FUSE-187	992	A	082-25N FU	7.32Y	122.0	0.00	3.97	11.32	23	82	9	99	0.00	0.0	6.854	0.000	0	0	0	29
187	FUSE-187	A	118-#8 A-C	7.27Y	121.2	0.82	4.79	11.32	11	82	9	99	0.36	0.4	9.086	2.232	82	9	29	29
993	177	ABC	098-#3/0 A	7.40Y	123.4	0.06	2.65	13.33	4	294	34	99	0.11	0.0	5.696	0.328	38	4	4	96
OCR-176	993	C	006-35-H	7.40Y	123.4	0.00	2.65	9.07	26	67	8	99	0.00	0.0	5.696	0.000	0	0	0	31
176	OCR-176	C	110-#4 ACS	7.39Y	123.2	0.14	2.79	9.07	6	67	8	99	0.04	0.1	8.113	2.416	67	8	31	31
OCR-175	993	B	047-70-63	7.40Y	123.4	0.00	2.65	25.72	37	189	22	99	0.00	0.0	5.696	0.000	0	0	0	61
175	OCR-175	B	106-#2 ACS	7.33Y	122.2	1.12	3.77	25.72	14	189	22	99	1.23	0.7	7.894	2.198	127	14	41	61
OCR-174	175	B	047-70-63	7.33Y	122.2	0.00	3.77	3.91	6	28	3	99	0.00	0.0	7.894	0.000	0	0	0	13
174	OCR-174	B	106-#2 ACS	7.33Y	122.2	0.07	3.83	3.91	2	28	3	99	0.01	0.0	9.019	1.125	28	3	13	13
173	175	B	118-#8 A-C	7.32Y	122.0	0.22	3.98	4.49	4	33	4	99	0.04	0.1	9.375	1.480	33	4	7	7
OCR-749	179	A	006-35-H	7.45Y	124.2	0.00	1.83	7.54	22	56	6	99	0.00	0.0	2.854	0.000	0	0	0	20
749	OCR-749	A	118-#8 A-C	7.42Y	123.7	0.43	2.26	7.54	8	56	6	99	0.13	0.2	4.622	1.768	56	6	20	20
720	714	ABC	098-#3/0 A	7.55Y	125.8	0.02	0.24	6.52	2	147	17	99	0.02	0.0	0.798	0.509	147	17	48	48
----- Feeder NO. 3 Beginning with Node Element 8603																				
8603	8600	ABC	Node	7.56Y	126.0	0.00	0.00	45.33	0	979	313	95	0.00	0.0						

Balanced Voltage Drop Report
Source: 8600

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

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
4020	715	ABC	116-4-ACWC	7.50Y	124.9	0.22	1.05	40.62	23	908	110	99	1.44	0.2	1.565	0.230	103	12	23	216	
171	4020	ABC	116-4-ACWC	7.39Y	123.2	1.73	2.78	36.02	20	804	98	99	9.81	1.2	3.729	2.164	165	19	50	193	
170	171	ABC	098-#3/0 A	7.38Y	123.0	0.26	3.04	25.64	9	565	66	99	1.01	0.2	4.535	0.807	84	10	15	126	
OCR-168	170	ABC	006-35-H	7.38Y	123.0	0.00	3.04	18.49	53	407	47	99	0.00	0.0	4.535	0.000	0	0	0	100	
168	OCR-168	ABC	098-#3/0 A	7.35Y	122.6	0.41	3.45	18.49	6	407	47	99	1.04	0.3	6.655	2.120	182	21	41	100	
4008	168	A	118-#8 A-C	7.33Y	122.2	0.39	3.84	10.40	10	76	9	99	0.15	0.2	7.807	1.152	76	9	17	17	
SECTZR-601	168	B	099-SECTIO	7.35Y	122.6	0.00	3.45	6.43	26	47	5	99	0.00	0.0	6.655	0.000	0	0	0	19	
601	SECTZR-601	B	117-#6 A-C	7.34Y	122.4	0.14	3.58	6.43	5	47	5	99	0.03	0.1	7.630	0.975	47	5	19	19	
OCR-600	168	C	047-70-63.	7.35Y	122.6	0.00	3.45	13.73	20	100	12	99	0.00	0.0	6.655	0.000	0	0	0	23	
600	OCR-600	C	117-#6 A-C	7.32Y	122.0	0.59	4.04	13.73	10	100	12	99	0.31	0.3	8.645	1.990	100	11	23	23	
167	170	ABC	098-#3/0 A	7.38Y	122.9	0.02	3.05	3.32	1	73	8	99	0.01	0.0	5.290	0.755	73	8	11	11	
169	171	C	118-#8 A-C	7.36Y	122.7	0.52	3.29	8.77	9	64	7	99	0.17	0.3	5.547	1.819	64	7	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	6637	0	0	0	0	0	51		0.00	6688	Lowest Voltage = 121.21 on Element 187	
KVAR	2145	0	0	0	0	0	56			2201	Max Accm VoltD = 4.79 on Element 187	
											Max Elem VoltD = 1.73 on Element 171	

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HARDINSBURG 2 SUMMER BASE

Balanced Voltage Drop Report
Source: 8700

Detail

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.WM\
Title:
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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)	Cons KW	Cons KVAR	Cons On	Cons Thru
8700		ABC	SRC-8700-D		7.56Y 126.0	0.00	0.00	204.38	0	4124	2115	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	47.47	0	886	612	82	0.00	0.0	0.000	0.000	0	0	0	102
625	8703	ABC	098-#3/O A		7.52Y 125.3	0.66	0.66	47.47	16	886	612	82	3.33	0.4	0.997	0.997	374	244	4	102
861	625	ABC	098-#3/O A		7.52Y 125.3	0.01	0.67	21.76	7	394	292	80	0.04	0.0	1.031	0.034	0	0	0	74
862	861	ABC	098-#3/O A		7.52Y 125.3	0.05	0.72	21.76	7	394	292	80	0.13	0.0	1.154	0.123	1	0	2	74
751	862	ABC	110-#4 ACS		7.48Y 124.7	0.55	1.27	21.74	16	394	292	80	5.12	0.3	3.132	1.978	0	0	0	72
P 162	751	ABC	110-#4 ACS		7.47Y 124.5	0.22	1.49	16.75	12	274	246	73	0.22	0.1	5.099	1.968	274	257	11	11 P
OCR-160	751	ABC	011- 70-L		7.48Y 124.7	0.00	1.27	5.48	8	119	32	97	0.00	0.0	3.132	0.000	0	0	0	61
160	OCR-160	ABC	102-#1/O A		7.48Y 124.6	0.14	1.41	5.48	2	119	32	97	0.09	0.1	5.391	2.259	86	23	44	61
RECLOSER-161	160	B	098-25H OC		7.48Y 124.6	0.00	1.41	4.52	18	33	9	96	0.00	0.0	5.391	0.000	0	0	0	17
161	RECLOSER-161	B	118-#8 A-C		7.45Y 124.2	0.34	1.75	4.52	5	33	9	96	0.06	0.2	7.670	2.279	33	9	17	17
719	625	ABC	117-#6 A-C		7.52Y 125.3	0.07	0.73	5.99	4	115	72	85	0.05	0.0	1.591	0.594	115	72	24	24
----- Feeder NO. 2 Beginning with Node Element 8702																				
8702	8700	ABC	Node		7.56Y 126.0	0.00	0.00	67.96	0	1337	767	87	0.00	0.0	0.000	0.000	0	0	0	210
158	8702	ABC	098-#3/O A		7.40Y 123.3	2.74	2.74	67.96	23	1337	767	87	22.93	1.7	2.441	2.441	123	33	35	210
4013	158	ABC	098-#3/O A		7.39Y 123.1	0.11	2.85	32.12	11	604	379	85	0.35	0.1	2.727	0.286	310	299	5	126
OCR-157	4013	ABC	011- 70-L		7.39Y 123.1	0.00	2.85	13.71	20	293	79	97	0.00	0.0	2.727	0.000	0	0	0	121
157	OCR-157	ABC	098-#3/O A		7.37Y 122.8	0.36	3.22	13.71	5	293	79	97	0.69	0.2	4.559	1.833	29	8	16	121
156	157	ABC	098-#3/O A		7.36Y 122.6	0.14	3.36	6.63	2	141	38	97	0.12	0.1	6.313	1.754	56	15	21	47
1156	156	ABC	098-#3/O A		7.36Y 122.6	0.02	3.38	3.99	1	85	23	97	0.01	0.0	6.658	0.345	19	5	6	26
1157	1156	ABC	098-#3/O A		7.36Y 122.6	0.01	3.39	3.08	1	66	18	96	0.01	0.0	6.950	0.291	11	3	4	20
1158	1157	ABC	098-#3/O A		7.35Y 122.6	0.04	3.43	2.55	1	54	15	96	0.01	0.0	7.977	1.027	5	1	4	16
OCR-1159	1158	A	049-100-63		7.35Y 122.6	0.00	3.43	6.89	7	49	13	97	0.00	0.0	7.977	0.000	0	0	0	12
1159	OCR-1159	A	118-#8 A-C		7.35Y 122.6	0.02	3.44	6.89	7	49	13	97	0.01	0.0	8.012	0.035	1	0	1	12
1160	1159	A	117-#6 A-C		7.35Y 122.5	0.05	3.49	6.78	5	48	13	97	0.02	0.0	8.162	0.150	1	0	1	11
OCR-1161	1160	A	049-100-63		7.35Y 122.5	0.00	3.49	6.78	7	47	13	96	0.00	0.0	8.162	0.000	0	0	0	10
1161	OCR-1161	A	117-#6 A-C		7.34Y 122.4	0.10	3.59	6.63	5	47	13	96	0.03	0.1	8.591	0.430	18	5	3	10
1162	1161	A	117-#6 A-C		7.34Y 122.3	0.06	3.65	4.04	3	29	8	96	0.01	0.0	9.055	0.464	16	4	3	7
1163	1162	A	118-#8 A-C		7.34Y 122.3	0.02	3.67	1.76	2	12	3	97	0.00	0.0	9.215	0.160	0	0	1	4
1164	1163	A	110-#4 ACS		7.34Y 122.3	0.01	3.68	1.76	1	12	3	97	0.00	0.0	9.463	0.248	0	0	0	3
1165	1164	A	110-#4 ACS		7.34Y 122.3	0.00	3.68	1.76	1	12	3	97	0.00	0.0	9.670	0.207	12	3	3	3
OCR-155	157	C	060-35-4H		7.31Y 122.8	0.00	3.22	9.33	27	66	18	96	0.00	0.0	4.559	0.000	0	0	0	28
155	OCR-155	C	118-#8 A-C		7.31Y 121.8	1.00	4.22	9.33	9	66	18	96	0.44	0.7	6.697	2.138	33	9	15	28
212	155	C	118-#8 A-C		7.30Y 121.6	0.16	4.38	4.71	5	33	9	96	0.03	0.1	7.748	1.051	33	9	13	13
FUSE-154	157	B	083-30W FU		7.37Y 122.8	0.00	3.22	7.84	13	56	15	97	0.00	0.0	4.559	0.000	0	0	0	30
154	FUSE-154	B	118-#8 A-C		7.32Y 122.0	0.73	3.95	7.84	8	56	15	97	0.21	0.4	7.372	2.812	56	15	30	30
4012	158	A	106-#2 ACS		7.39Y 123.1	0.17	2.91	8.26	5	59	16	97	0.05	0.1	3.701	1.259	59	16	18	18
901	158	ABC	106-#2 ACS		7.38Y 123.1	0.18	2.92	27.70	15	528	314	86	0.52	0.1	2.880	0.439	485	302	16	31
902	901	B	106-#2 ACS		7.38Y 123.0	0.11	3.03	5.97	3	43	11	97	0.02	0.1	4.015	1.134	43	11	15	15
----- Feeder NO. 1 Beginning with Node Element 8701																				
8701	8700	ABC	Node		7.56Y 126.0	0.00	0.00	75.61	0	1605	603	94	0.00	0.0	0.000	0.000	0	0	0	547
502	8701	ABC	090-336 AC		7.52Y 125.4	0.63	0.63	75.61	14	1605	603	94	4.83	0.3	1.059	1.059	90	24	43	547
P 4073	502	ABC	090-336 AC		7.52Y 125.4	0.00	0.63	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		7.52Y 125.3	0.06	0.69	71.50	13	1510	568	94	0.46	0.0	1.168	0.109	0	0	0	504
711	889	ABC	098-#3/O A		7.46Y 124.3	0.99	1.69	71.50	24	1510	567	94	9.11	0.6	2.124	0.956	222	159	26	504
214	711	ABC	098-#3/O A		7.43Y 123.8	0.50	2.18	59.84	20	1279	397	96	4.13	0.3	2.668	0.544	27	24	3	478
OCR-213	214	C	005- 25-H		7.43Y 123.8	0.00	2.18	2.32	9	17	4	97	0.00	0.0	2.668	0.000	0	0	0	7
213	OCR-213	C	106-#2 ACS		7.42Y 123.7	0.10	2.28	2.32	1	17	4	97	0.01	0.0	5.281	2.614	17	4	7	7
211	214	ABC	098-#3/O A		7.35Y 122.4	1.40	3.58	57.60	19	1231	364	96	11.11	0.9	4.299	1.631	81	22	25	468
4028	211	C	117-#6 A-C		7.33Y 122.2	0.17	3.75	5.11	4	36	10	96	0.03	0.1	5.774	1.475	36	10	19	19
4004	211	ABC	098-#3/O A		7.32Y 122.0	0.38	3.96	52.10	17	1102	320	96	2.79	0.3	4.790	0.491	47	13	10	424
4005	4004	ABC	Regulator		7.56Y 126.0	-3.96	0.00	49.88	23	1053	305	96	0.00	0.0	4.790	0.000	0	0	0	414
209	4005	ABC	098-#3/O A		7.52Y 125.4	0.59	0.59	48.32	16	1053	305	96	3.96	0.4	5.609	0.820	59	16	19	414
OCR-208	209	ABC	012-100-L		7.52Y 125.4	0.00	0.59	21.55	22	470	127	97	0.00	0.0	5.609	0.000	0	0	0	183
208	OCR-208	ABC	106-#2 ACS		7.46Y 124.3	1.08	1.67	21.55	12	470	127	97	3.40	0.7	7.799	2.190	125	33	27	183
OCR-207	208	B	007- 50-H		7.46Y 124.3	0.00	1.67	6.69	13	48	13	97	0.00	0.0	7.799	0.000	0	0	0	22
206	OCR-207	B	106-#2 ACS		7.45Y 124.1	0.23	1.90	6.69	4	48	13	97	0.05	0.1	9.960	2.160	48	13	22	22
OCR-205	206	ABC	106-#2 ACS		7.45Y 124.1	0.22	1.89	11.07	6	239	64	97	0.36	0.1	8.653	0.854	59	16	15	101
205	OCR-205	C	006- 35-H		7.45Y 124.1	0.00	1.89	11.36	32	82	22	97	0.00	0.0	8.653	0.000	0	0	0	45
204	205	C	117-#6 A-C		7.40Y 123.3	0.80	2.69	11.36												

Balanced Voltage Drop Report
Source: 8700

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.KM\
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 From Src	Length (mi)	Element			
																	KW	KVAR	Cons On	Cons Thru
OCR-86	83	ABC	006- 35-H	7.48Y	124.7	0.00	1.33	5.64	16	122	33	97	0.00	0.0	8.208	0.000	0	0	0	59
86	OCR-86	ABC	106-#2 ACS	7.47Y	124.5	0.14	1.47	5.64	3	122	33	97	0.12	0.1	9.222	1.015	16	4	10	59
FUSE-85	86	C	083-30N FU	7.47Y	124.5	0.00	1.47	9.24	15	67	18	97	0.00	0.0	9.222	0.000	0	0	0	31
85	FUSE-85	C	118-#8 A-C	7.42Y	123.7	0.78	2.25	9.24	9	67	18	97	0.27	0.4	11.760	2.538	66	18	31	31
FUSE-84	86	B	083-30N FU	7.47Y	124.5	0.00	1.47	5.49	9	40	11	96	0.00	0.0	9.222	0.000	0	0	0	18
84	FUSE-84	B	118-#8 A-C	7.46Y	124.3	0.28	1.75	5.49	5	40	11	96	0.06	0.1	10.730	1.508	40	11	18	18
OCR-210	209	A	005- 25-H	7.52Y	125.4	0.00	0.59	13.95	56	101	27	97	0.00	0.0	5.609	0.000	0	0	0	50
210	OCR-210	A	106-#2 ACS	7.49Y	124.8	0.65	1.24	13.95	8	101	27	97	0.31	0.3	8.475	2.866	101	27	50	50
8704	8700	ABC	098-#3/O A	7.56Y	125.9	0.07	0.07	14.33	5	297	133	91	0.13	0.0	0.286	0.286	0	0	0	124
490	8704	ABC	098-#3/O A	7.55Y	125.9	0.07	0.14	14.33	5	296	133	91	0.09	0.0	0.889	0.603	296	133	124	124
P 4046	490	ABC	118-#8 A-C	7.55Y	125.9	0.00	0.14	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	LoopsMetas	Losses	No Load Losses	Total			
KW	4050	0	0	0	0	0	75	0.00	4124	Lowest Voltage = 121.62 on Element 212		
KVAR	2027	0	0	0	0	0	88		2115	Max Accum VoltD = 4.38 on Element 212		
										Max Elem VoltD = 2.74 on Element 158		

22 8 128

Harned Summer Base

Detail

Balanced Voltage Drop Report
Source: 8140

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

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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
8140		ABC	SRC-8140-D	7.56Y	126.0	0.00	0.00	236.03	0	4931	2083	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	97.35	0	1957	1022	89	0.00	0.0	0.000	0.000	0	0	0	553
1149	NODE19	ABC	220-500 MC	7.56Y	126.0	0.02	0.02	97.35	25	1957	1022	89	0.63	0.0	0.073	0.073	0	0	0	553
787	1149	ABC	098-#3/0 A	7.54Y	125.7	0.30	0.33	31.69	11	603	392	84	0.79	0.1	1.158	1.084	602	391	158	158
608	1149	ABC	098-#3/0 A	7.49Y	124.8	1.17	1.19	65.87	22	1354	631	91	8.69	0.6	1.461	1.388	473	427	40	395
607	608	ABC	098-#3/0 A	7.49Y	124.8	0.03	1.22	4.80	2	105	23	98	0.02	0.0	2.390	0.929	105	23	22	22
4029	608	ABC	098-#3/0 A	7.48Y	124.7	0.13	1.32	34.95	12	766	171	98	0.64	0.1	1.726	0.265	81	18	35	333
201	4029	ABC	116-4-ACWC	7.42Y	123.6	1.05	2.37	31.24	17	684	152	98	5.00	0.7	3.183	1.457	136	30	58	298
911	201	ABC	Regulator	7.56Y	126.0	-2.37	0.00	24.99	11	543	120	98	0.00	0.0	3.183	0.000	0	0	0	240
200	911	ABC	116-4-ACWC	7.53Y	125.6	0.42	0.42	24.52	14	543	120	98	1.60	0.3	3.895	0.712	72	16	19	240
OCR-199	200	A	006-35-H	7.53Y	125.6	0.00	0.42	16.85	48	248	54	98	0.00	0.0	3.895	0.000	0	0	0	118
199	OCR-199	A	C 117-#6 A-C	7.51Y	125.2	0.36	0.78	16.85	12	248	54	98	0.45	0.2	4.907	1.012	248	54	118	118
OCR-198	200	C	060-35-4H	7.53Y	125.6	0.00	0.42	5.43	16	40	9	98	0.00	0.0	3.895	0.000	0	0	0	15
198	OCR-198	C	118-#8 A-C	7.52Y	125.3	0.30	0.71	5.43	5	40	9	98	0.06	0.2	5.543	1.648	40	9	15	15
197	200	ABC	116-4-ACWC	7.53Y	125.4	0.16	0.58	8.23	5	182	40	98	0.15	0.1	5.430	1.536	182	40	88	88
Feeder NO. 2		Beginning with Node Element NODE18																		
NODE18	8140	ABC	Node	7.56Y	126.0	0.00	0.00	139.23	0	2974	1060	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	139.23	36	2974	1060	94	1.27	0.0	0.072	0.072	0	0	0	602
F 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 P
190	1150	ABC	098-#3/0 A	7.38Y	123.0	2.92	2.96	139.23	46	2973	1061	94	52.03	1.8	1.577	1.505	556	385	6	602
745	190	ABC	098-#3/0 A	7.30Y	121.7	1.30	4.26	110.35	37	2365	616	97	20.71	0.9	2.361	0.784	0	0	0	596
C OCR-216	745	B	006-35-H	7.30Y	121.7	0.00	4.26	28.29	81	202	45	98	0.00	0.0	2.361	0.000	0	0	0	83 C
216	OCR-216	B	106-#2 ACS	7.21Y	120.2	1.57	5.83	28.29	16	202	45	98	1.83	0.9	4.895	2.534	124	27	53	83
FUSE-215	216	B	083-30N FU	7.21Y	120.2	0.00	5.83	7.86	13	55	12	98	0.00	0.0	4.895	0.000	0	0	0	23
215	FUSE-215	B	106-#2 ACS	7.19Y	119.9	0.31	6.14	7.86	4	55	12	98	0.08	0.2	7.384	2.489	55	12	23	23
4107	216	B	110-#4 ACS	7.21Y	120.2	0.01	5.83	2.93	2	21	5	97	0.00	0.0	5.150	0.255	21	5	7	7
196	745	ABC	098-#3/0 A	7.22Y	120.3	1.40	5.66	100.93	34	2143	547	97	20.44	1.0	3.286	0.925	0	0	0	513
4030	196	ABC	098-#3/0 A	7.21Y	120.1	0.25	5.91	72.41	24	1522	378	97	2.66	0.2	3.523	0.237	16	13	3	317
4087	4030	ABC	Regulator	7.56Y	126.0	-5.91	0.00	11.56	33	1504	362	97	0.00	0.0	3.523	0.000	0	0	0	314
535	4087	ABC	098-#3/0 A	7.43Y	123.8	2.24	2.24	68.20	23	1504	362	97	21.50	1.4	5.882	2.359	174	46	52	314
OCR-188	535	C	007-50-H	7.43Y	123.8	0.00	2.24	6.60	13	48	10	98	0.00	0.0	5.882	0.000	0	0	0	26
188	OCR-188	C	118-#8 A-C	7.41Y	123.4	0.34	2.58	6.60	7	48	10	98	0.08	0.2	7.427	1.545	48	10	26	26
OCR-185	535	C	049-100-63	7.43Y	123.8	0.00	2.24	5.41	5	39	9	97	0.00	0.0	5.882	0.000	0	0	0	6
185	OCR-185	C	117-#6 A-C	7.42Y	123.7	0.11	2.35	5.41	4	39	9	97	0.02	0.1	6.749	0.867	39	9	6	6
182	535	ABC	098-#3/0 A	7.39Y	123.1	0.66	2.90	56.16	19	1221	273	98	5.28	0.4	6.739	0.857	139	55	32	230
4839	182	ABC	Capacitor	7.39Y	123.1	0.00	2.90	16.26	0	249	-261	-69	0.00	0.0	6.739	0.000	0	0	0	73
4836	4839	ABC	098-#3/0 A	7.38Y	122.9	0.17	3.08	11.49	4	249	55	98	0.25	0.1	8.050	1.311	107	23	33	73
4818	4836	C	118-#8 A-C	7.37Y	122.8	0.08	3.16	19.62	20	141	31	98	0.09	0.1	8.118	0.068	11	3	3	40
OCR-4819	4818	C	061-50-4H	7.37Y	122.8	0.00	3.16	18.03	36	130	29	98	0.00	0.0	8.118	0.000	0	0	0	37
4819	OCR-4819	C	117-#6 A-C	7.33Y	122.2	0.62	3.78	18.03	13	130	29	98	0.56	0.4	8.974	0.856	29	6	7	37
4820	4819	C	106-#2 ACS	7.32Y	122.0	0.18	3.96	13.99	8	100	22	98	0.13	0.1	9.379	0.406	0	0	0	30
183	4820	C	117-#6 A-C	7.31Y	121.8	0.24	4.20	13.99	10	100	22	98	0.12	0.1	10.133	0.754	100	22	30	30
4815	182	ABC	106-#2 ACS	7.38Y	123.0	0.09	2.99	32.35	18	584	416	81	0.32	0.1	6.915	0.176	468	391	8	53
4816	4815	B	061-50-4H	7.38Y	123.0	0.01	3.01	15.98	9	115	25	98	0.01	0.0	6.945	0.030	0	0	0	45
OCR-4817	4816	B	061-50-4H	7.38Y	123.0	0.00	3.01	15.98	32	115	25	98	0.00	0.0	6.945	0.000	0	0	0	45
4817	OCR-4817	B	106-#2 ACS	7.37Y	122.8	0.15	3.16	15.98	9	115	25	98	0.11	0.1	7.308	0.364	45	10	14	45
OCR-184	4817	B	051-140-63	7.37Y	122.8	0.00	3.16	9.73	7	70	15	98	0.00	0.0	7.308	0.000	0	0	0	31
184	OCR-184	B	110-#4 ACS	7.36Y	122.7	0.13	3.28	9.73	7	70	15	98	0.03	0.0	9.007	1.699	70	15	31	31
1180	182	A	106-#2 ACS	7.28Y	121.3	1.83	4.73	33.99	19	245	56	97	2.73	1.1	8.929	2.190	110	24	32	72
1181	1180	A	106-#2 ACS	7.25Y	120.8	0.44	5.17	18.59	10	132	30	98	0.41	0.3	9.737	0.808	18	4	7	40
1182	1181	A	106-#2 ACS	7.21Y	120.2	0.61	5.78	16.02	9	113	25	98	0.47	0.4	11.071	1.334	24	5	5	33
1183	1182	A	106-#2 ACS	7.21Y	120.2	0.02	5.80	12.63	7	89	20	98	0.02	0.0	11.137	0.066	11	2	8	28
1184	1183	A	106-#2 ACS	7.20Y	120.0	0.15	5.95	11.06	6	78	17	98	0.08	0.1	11.619	0.482	19	4	4	20
1185	1184	A	106-#2 ACS	7.20Y	119.9	0.13	6.08	8.29	5	58	13	98	0.05	0.1	12.232	0.613	24	5	9	16
1186	1185	A	106-#2 ACS	7.19Y	119.9	0.03	6.11	4.85	3	34	7	98	0.01	0.0	12.670	0.439	34	7	7	7
OCR-746	196	ABC	007-50-H	7.22Y	120.3	0.00	5.66	28.52	57	600	146	97	0.00	0.0	3.526	0.000	0	0	0	196
746	OCR-746	ABC	098-#3/0 A	7.21Y	120.2	0.10	5.76	28.52	10	600	146	97	0.39	0.1	3.529	0.243	62	25	15	196
4081	746	ABC	098-#3/0 A	7.21Y	120.2	0.06	5.82	25.49	8	538	121	98	0.23	0.0	3.690	0.162	3	1	1	181
4082	408																			

IRVINGTON Summer Base

Balanced Voltage Drop Report
Source: 8800

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 Name	Parent Name	Cnf	Type/ Conductor	Pri KV	Base Volt	Element Drop	Accum Drop	Thru Amps	Thru Cap	Thru KW	KVAR	PF	kW Loss	kVAr Loss	mi From Src	Length (mi)	Element KW	Element KVAR	Cons On	Cons Thru
8800		ABC	SRC-8800-D	7.56Y	126.0	0.00	0.00	401.89	0	8203	3975	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	88.24	0	1801	873	90	0.00	0.0	0.000	0.000	0	0	0	388
C 394	8806	ABC	113-2F 7/1	7.37Y	122.9	3.11	3.11	88.24	52	1801	873	90	37.21	2.1	1.821	1.821	1	1	2	388 C
991	394	ABC	Regulator	7.56Y	126.0	-3.11	0.00	53.28	24	1130	335	96	0.00	0.0	1.821	0.000	0	0	0	378
990	991	ABC	116-4-ACWC	7.50Y	125.0	1.03	1.03	51.97	29	1130	335	96	8.53	0.8	2.578	0.757	4	0	2	378
OCR-897	990	ABC	012-100-L	7.50Y	125.0	0.00	1.03	23.05	23	518	8	100	0.00	0.0	2.578	0.000	0	0	0	210
897	OCR-897	ABC	098-#3/0 A	7.49Y	124.8	0.15	1.18	23.05	8	518	8	100	0.63	0.1	3.126	0.548	1	0	1	210
393	897	ABC	098-#3/0 A	7.47Y	124.5	0.36	1.54	23.02	8	517	8	100	1.43	0.3	4.465	1.339	47	0	19	209
391	393	ABC	098-#3/0 A	7.45Y	124.2	0.22	1.76	20.93	7	469	6	100	0.80	0.2	5.355	0.890	31	8	9	190
OCR-390	391	A	006-35-H	7.45Y	124.2	0.00	1.76	10.78	31	80	0	100	0.00	0.0	5.355	0.000	0	0	0	39
390	OCR-390	A	100-#2/0 A	7.44Y	124.0	0.27	2.03	10.78	4	80	0	100	0.12	0.1	8.736	3.381	80	-1	39	39
389	391	ABC	098-#3/0 A	7.45Y	124.1	0.11	1.87	15.94	5	356	-2	-100	0.32	0.1	5.931	0.576	0	0	0	142
388	389	ABC	098-#3/0 A	7.44Y	124.1	0.07	1.94	7.12	2	159	-1	-100	0.09	0.1	6.897	0.966	29	0	9	60
1405	388	B	106-#2 ACS	7.44Y	124.1	0.00	1.95	2.82	2	21	0	100	0.00	0.0	6.948	0.051	0	0	0	11
OCR-1406	1405	B	061-50-4H	7.44Y	124.1	0.00	1.95	2.82	6	21	0	100	0.00	0.0	6.948	0.000	0	0	0	11
1406	OCR-1406	B	106-#2 ACS	7.44Y	124.0	0.04	1.98	2.82	2	21	0	100	0.00	0.0	7.898	0.958	21	0	11	11
1388	388	ABC	098-#3/0 A	7.44Y	124.0	0.02	1.96	4.86	2	109	-1	-100	0.01	0.0	7.203	0.306	24	0	7	40
1389	1388	ABC	098-#3/0 A	7.44Y	124.0	0.00	1.96	3.78	1	84	-1	-100	0.00	0.0	7.274	0.071	22	0	5	33
1403	1389	A	106-#2 ACS	7.44Y	124.0	0.06	2.02	5.52	3	41	0	100	0.02	0.0	7.802	0.528	22	0	12	19
1404	1403	A	117-#6 A-C	7.44Y	124.0	0.01	2.03	2.62	2	19	0	100	0.00	0.0	8.059	0.257	19	0	7	7
OCR-1400	1389	C	006-35-H	7.44Y	124.0	0.00	1.96	2.87	8	21	0	100	0.00	0.0	7.274	0.000	0	0	0	9
1400	OCR-1400	C	110-#4 ACS	7.44Y	124.0	0.01	1.97	2.87	2	21	0	100	0.00	0.0	7.763	0.489	19	0	7	9
1401	1400	C	098-#3/0 A	7.44Y	124.0	0.00	1.97	0.25	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	124.0	0.00	1.97	0.00	0	0	0	0	0.00	0.0	8.433	0.300	0	0	0	P
4931	389	ABC	116-4-ACWC	7.43Y	123.9	0.25	2.12	8.82	5	197	-1	-100	0.37	0.2	7.299	1.369	41	0	16	82
387	4931	ABC	116-4-ACWC	7.43Y	123.8	0.11	2.23	6.98	4	156	-1	-100	0.12	0.1	8.152	0.853	64	-1	20	66
386	387	ABC	116-4-ACWC	7.42Y	123.7	0.09	2.32	4.11	2	91	-1	-100	0.06	0.1	9.276	1.123	30	0	13	46
OCR-385	386	A	006-35-H	7.42Y	123.7	0.00	2.32	8.34	24	62	0	100	0.00	0.0	9.276	0.000	0	0	0	33
385	OCR-385	A	117-#6 A-C	7.40Y	123.3	0.38	2.70	8.34	6	62	0	100	0.13	0.2	11.500	2.224	62	0	33	33
514	990	ABC	098-#3/0 A	7.49Y	124.8	0.14	1.17	30.23	10	599	322	88	0.55	0.1	2.861	0.284	13	0	5	166
OCR-376	514	C	007-50-H	7.49Y	124.8	0.00	1.17	13.52	27	101	-1	-100	0.00	0.0	2.861	0.000	0	0	0	67
376	OCR-376	C	117-#6 A-C	7.45Y	124.1	0.69	1.86	13.52	10	101	-1	-100	0.37	0.4	5.353	2.491	101	-1	67	67
707	514	ABC	098-#3/0 A	7.48Y	124.7	0.08	1.25	25.87	9	484	322	83	0.18	0.0	3.162	0.300	345	322	18	94
OC034	707	ABC	007-50-H	7.48Y	124.7	0.00	1.25	6.17	12	139	0	100	0.00	0.0	3.162	0.000	0	0	0	76
clifton mills	OC034	ABC	098-#3/0 A	7.47Y	124.6	0.17	1.42	6.17	2	139	0	100	0.19	0.1	5.407	2.245	0	0	0	76
OCR-382	clifton mills	A	011-70-L	7.47Y	124.6	0.00	1.42	18.52	26	138	0	100	0.00	0.0	5.407	0.000	0	0	0	76
382	OCR-382	A	106-#2 ACS	7.44Y	123.9	0.65	2.06	18.52	10	138	0	100	0.61	0.4	7.091	1.685	66	-1	37	76
OCR-380	382	A	051-140-63	7.44Y	123.9	0.00	2.06	9.60	7	71	0	100	0.00	0.0	7.091	0.000	0	0	0	39
380	OCR-380	A	106-#2 ACS	7.41Y	123.5	0.46	2.52	9.60	5	71	0	100	0.20	0.3	9.946	2.855	55	0	30	39
OCR-381	380	A	051-140-63	7.41Y	123.5	0.00	2.52	2.15	2	16	0	100	0.00	0.0	9.946	0.000	0	0	0	9
381	OCR-381	A	118-#8 A-C	7.40Y	123.3	0.13	2.65	2.15	2	16	0	100	0.01	0.1	11.940	1.994	16	0	9	9
P 823	394	ABC	116-4-ACWC	7.36Y	122.7	0.22	3.33	36.46	20	633	500	78	0.84	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	4.14	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							

Balanced Voltage Drop Report
Source: 8800

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	% Loss	mi From Src	Length (mi)	Element		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	7.02	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	7.02	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	080-15M 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 P
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
420	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
OCR-419	420	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
419	OCR-419	A	102-#1/0 A	7.28Y	121.3	0.15	4.73	15.67	7	103	48	91	0.06	0.1	6.659	0.700	103	48	37	37
418	420	ABC	098-#3/0 A	7.27Y	121.2	0.21	4.79	23.95	8	472	225	90	0.61	0.1	6.527	0.567	77	40	24	172
OCR-417	418	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
417	OCR-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
416	417	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
415	417	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
521	415	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
FUSE-519	415	A	083-30M 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
519	FUSE-519	A	117-#6 A-C	7.24Y	120.6	0.36	5.39	6.63	5	44	20	91	0.08	0.2	9.846	2.316	44	20	25	25
P 4070	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 P
OCR-4134	488	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
P 4134	OCR-4134	B	106-#2 ACS	7.49Y	124.9	0.00	1.10	0.00	0	0										

Balanced Voltage Drop Report
Source: 8800

Database: C:\MILLSOFT\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	Loss	% Loss	mi From Src	Length (mi)	Element			
																KW	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	8043	0	0	0	0	0	159	0.00	8203	Lowest Voltage = 119.37 on Element 487		
KVAR	3819	0	0	0	0	0	156		3975	Max Accm VoltD = 6.63 on Element 487		
										Max Elem VoltD = 3.11 on Element 394		

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McDANIELS SUMMER BASE

Detail

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	% 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	404.84	0	8904	2241	97	0.00	0.0	0.000	0.000	0	0	0	3042
----- Feeder NO. 1 Beginning with Node Element 8811																				
8811	8810	ABC	Node	7.56Y	126.0	0.00	0.00	122.92	0	2702	685	97	0.00	0.0	0.000	0.000	0	0	0	794
556	8811	ABC	098-#3/0 A	7.40Y	123.4	2.63	2.63	122.92	41	2702	685	97	45.19	1.7	1.535	1.535	310	129	82	794
OCR-554	556	C	049-100-63	7.40Y	123.4	0.00	2.63	12.91	13	90	33	94	0.00	0.0	1.535	0.000	0	0	0	36
554	OCR-554	C	110-#4 ACS	7.40Y	123.3	0.09	2.72	12.91	9	90	33	94	0.03	0.0	2.301	0.766	90	33	36	36
OCR-550	556	C	005-25-H	7.40Y	123.4	0.00	2.63	13.36	53	93	34	94	0.00	0.0	1.535	0.000	0	0	0	75
550	OCR-550	C	110-#4 ACS	7.40Y	123.3	0.06	2.69	13.36	10	93	34	94	0.02	0.0	2.003	0.468	93	34	75	75
P 4127	556	ABC	098-#3/0 A	7.40Y	123.4	0.00	2.63	0.00	0	0	0	0	0.00	0.0	1.539	0.004	0	0	0	0
4050	556	ABC	098-#3/0 A	7.30Y	121.6	1.75	4.38	99.44	33	2165	437	98	25.78	1.2	2.785	1.250	94	35	35	601
FUSE-548	4050	ABC	081-20N FU	7.30Y	121.6	0.00	4.38	13.31	33	219	192	75	0.00	0.0	2.785	0.000	0	0	0	12
P 548	FUSE-548	ABC	110-#4 ACS	7.29Y	121.6	0.06	4.44	13.31	10	219	192	75	0.05	0.0	3.430	0.644	219	192	12	12
FUSE-500	4050	A	081-20N FU	7.30Y	121.6	0.00	4.38	9.75	24	67	25	94	0.00	0.0	2.785	0.000	0	0	0	32
500	FUSE-500	A	110-#4 ACS	7.29Y	121.5	0.08	4.46	9.75	7	67	25	94	0.02	0.0	3.747	0.962	67	25	32	32
4051	4050	ABC	Regulator	7.56Y	126.0	-4.38	0.00	80.70	37	1760	156	100	0.00	0.0	2.785	0.000	0	0	0	522
4052	4051	ABC	098-#3/0 A	7.56Y	125.9	0.08	0.08	77.89	26	1760	156	100	1.06	0.1	2.866	0.000	0	0	0	522
C OCR-549	4052	ABC	006-35-H	7.56Y	125.9	0.00	0.08	77.89	223	1759	155	100	0.00	0.0	2.866	0.000	0	0	0	522
549	OCR-549	ABC	098-#3/0 A	7.52Y	125.3	0.61	0.69	77.89	26	1759	155	100	7.74	0.4	3.475	0.609	68	25	15	522
FUSE-499	549	B	082-25N FU	7.52Y	125.3	0.00	0.69	12.20	24	86	32	94	0.00	0.0	3.475	0.000	0	0	0	28
499	FUSE-499	B	110-#4 ACS	7.51Y	125.2	0.11	0.81	12.20	9	86	32	94	0.03	0.0	4.531	1.056	86	32	28	28
OCR-109	549	A	011-70-L	7.52Y	125.3	0.00	0.69	39.68	57	279	106	93	0.00	0.0	3.475	0.000	0	0	0	93
109	OCR-109	A	110-#4 ACS	7.45Y	124.1	1.17	1.87	39.68	28	279	106	93	1.41	0.5	5.612	2.137	127	47	35	93
FUSE-110	109	A	082-25N FU	7.45Y	124.1	0.00	1.87	21.55	43	150	56	94	0.00	0.0	5.612	0.000	0	0	0	58
110	FUSE-110	A	110-#4 ACS	7.42Y	123.6	0.51	2.37	21.55	15	150	56	94	0.26	0.2	8.247	2.635	150	56	58	58
OCR-108	549	ABC	012-100-L	7.52Y	125.3	0.00	0.69	58.46	58	1318	-17	-100	0.00	0.0	3.475	0.000	0	0	0	396
108	OCR-108	ABC	098-#3/0 A	7.49Y	124.8	0.54	1.23	58.46	19	1318	-17	-100	5.69	0.4	4.325	0.850	145	54	41	396
107	108	ABC	116-4-ACWC	7.39Y	123.1	1.64	2.87	48.76	27	1090	-107	-100	14.78	1.4	6.358	2.033	379	186	81	291
4000	107	ABC	116-4-ACWC	7.38Y	123.0	0.11	2.98	34.22	19	696	-302	-92	1.02	0.1	6.572	0.214	33	12	4	210
4001	4000	ABC	Capacitor	7.38Y	123.0	0.00	2.98	33.09	0	662	-315	-90	0.00	0.0	6.572	0.000	0	0	0	206
OCR-106	4001	ABC	011-70-L	7.38Y	123.0	0.00	2.98	31.95	46	662	251	94	0.00	0.0	6.572	0.000	0	0	0	206
106	OCR-106	ABC	098-#3/0 A	7.31Y	121.8	1.22	4.20	31.95	11	662	251	94	4.60	0.7	9.504	2.932	249	93	64	206
OCR-105	106	B	009-35-L	7.31Y	121.8	0.00	4.20	13.78	39	94	35	94	0.00	0.0	9.504	0.000	0	0	0	76
105	OCR-105	B	106-#2 ACS	7.25Y	120.8	0.98	5.18	13.78	8	94	35	94	0.44	0.5	13.743	4.239	94	35	76	76
104	106	ABC	098-#3/0 A	7.30Y	121.7	0.07	4.27	14.36	5	295	111	94	0.13	0.0	9.830	0.327	48	18	7	62
FUSE-103	104	A	083-30N FU	7.30Y	121.7	0.00	4.27	5.96	10	41	15	94	0.00	0.0	9.830	0.000	0	0	0	4
103	FUSE-103	A	117-#6 A-C	7.28Y	121.3	0.38	4.65	5.96	4	41	15	94	0.08	0.2	12.582	2.752	41	15	4	4
C OCR-99	104	A	006-35-H	7.30Y	121.7	0.00	4.27	30.11	86	206	78	94	0.00	0.0	9.830	0.000	0	0	0	51
99	OCR-99	A	106-#2 ACS	7.15Y	119.2	2.53	6.80	30.11	17	206	78	94	2.99	1.5	13.353	3.523	119	44	35	51
97	99	A	106-#2 ACS	7.14Y	119.0	0.18	6.98	12.54	7	84	31	94	0.07	0.1	14.194	0.841	84	31	16	16
OCR-4801	106	A	005-25-H	7.31Y	121.8	0.00	4.20	2.78	11	19	7	94	0.00	0.0	9.504	0.000	0	0	0	4
4801	OCR-4801	A	118-#8 A-C	7.31Y	121.8	0.01	4.21	2.78	3	19	7	94	0.00	0.0	9.638	0.134	19	7	4	4
FUSE-545	108	A	080-15N FU	7.49Y	124.8	0.00	1.23	11.15	37	78	29	94	0.00	0.0	4.325	0.000	0	0	0	54
545	FUSE-545	A	110-#4 ACS	7.48Y	124.7	0.11	1.35	11.15	8	78	29	94	0.03	0.0	5.454	1.128	78	29	54	54
P 4053	4050	B	117-#6 A-C	7.30Y	121.6	0.00	4.38	0.00	0	0	0	0	0.00	0.0	2.987	0.202	0	0	0	0
----- Feeder NO. 3 Beginning with Node Element 8813																				
8813	8810	ABC	Node	7.56Y	126.0	0.00	0.00	163.74	0	3602	905	97	0.00	0.0	0.000	0.000	0	0	0	1214
C 792	8813	ABC	098-#3/0 A	7.45Y	124.2	1.76	1.76	163.74	55	3602	905	97	41.60	1.2	0.725	0.725	56	12	14	1214
C 130	792	ABC	098-#3/0 A	7.31Y	121.9	2.34	4.10	161.19	54	3504	846	97	54.08	1.5	1.729	1.005	150	41	58	1200
OCR-129	130	B	049-100-63	7.31Y	121.9	0.00	4.10	11.78	12	84	18	98	0.00	0.0	1.729	0.000	0	0	0	65
129	OCR-129	B	106-#2 ACS	7.28Y	121.3	0.56	4.65	11.78	7	84	18	98	0.23	0.3	4.739	3.009	84	18	65	65
128	130	ABC	098-#3/0 A	7.20Y	120.0	1.93	6.03	148.46	49	3176	726	97	41.98	1.3	2.626	0.896	77	16	16	1077
903	128	ABC	Regulator	7.56Y	126.0	-6.03	0.00	144.84	66	3057	663	98	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	137.91	46	3057	663	98	7.62	0.2	2.812	0.186	23	5	4	1061
125	4110	ABC	098-#3/0 A	7.45Y	124.1	1.52	1.90	136.88	46	3026	649	98	30.73	1.0	3.585	0.774	80	23	13	1057
OCR-124	125	ABC	012-100-L	7.45Y	124.1	0.00	1.90	36.22	36	781	212	97	0.00	0.0	3.585	0.000	0	0	0	271
124	OCR-124	ABC	098-#3/0 A	7.41Y	123.6	0.55	2.44	36.22	12	781	212	97	2.58	0.3	4.751	1.166	206	85	20	271
123	124	ABC	098-#3/0 A	7.39Y	123.2	0.31	2.75	17.67	6	384	83	98	0.76	0.2	6.101	1.349	83	18	25	181
OCR-122	123	C	006-35-H	7.39Y	123.2	0.00	2.75	13.22	38	96	20	98	0.00	0.0	6.101	0.000	0	0	0	51
122	OCR-122	C	118-#8 A-C	7.36Y	122.6	0.65	3.40	13.22	13	96	20	98	0.39	0.4	7.129	1.028	54	11	30	51
OCR-657	122																			

Balanced Voltage Drop Report
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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
4922	4921	C	106-#2 ACS	7.19Y	119.9	0.21	6.12	25.66	14	181	39	98	0.27	0.2	7.612	0.264	10	2	3	92
661	4922	C	106-#2 ACS	7.15Y	119.1	0.77	6.89	24.22	13	170	37	98	0.91	0.5	8.723	1.112	33	7	11	89
OCR-660	661	C	051-140-63	7.15Y	119.1	0.00	6.89	12.81	9	90	19	98	0.00	0.0	8.723	0.000	0	0	0	53
660	OCR-660	C	106-#2 ACS	7.14Y	119.0	0.10	6.99	12.81	7	90	19	98	0.05	0.1	9.118	0.395	62	13	36	53
OCR-4924	660	C	051-140-63	7.14Y	119.0	0.00	6.99	3.89	3	27	6	98	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	7.03	3.89	2	27	6	98	0.01	0.0	9.744	0.626	27	6	17	17
OCR-4923	661	C	051-140-63	7.15Y	119.1	0.00	6.89	6.75	5	47	10	98	0.00	0.0	8.723	0.000	0	0	0	25
4923	OCR-4923	C	110-#4 ACS	7.15Y	119.1	0.03	6.92	6.75	5	47	10	98	0.01	0.0	9.325	0.602	47	10	25	25
OCR-116	119	B	007- 50-H	7.27Y	121.2	0.00	4.85	28.87	58	205	45	98	0.00	0.0	6.201	0.000	0	0	0	94
116	OCR-116	B	106-#2 ACS	7.21Y	120.1	1.04	5.89	28.87	16	205	45	98	1.36	0.7	7.633	1.432	82	18	32	94
802	116	B	110-#4 ACS	7.20Y	120.0	0.10	5.99	11.36	8	80	17	98	0.03	0.0	8.811	1.178	80	17	53	53
801	116	B	106-#2 ACS	7.20Y	120.1	0.05	5.94	5.89	3	42	9	98	0.01	0.0	8.167	0.534	41	9	9	9
115	119	ABC	098-#3/0 A	7.23Y	120.5	0.67	5.52	42.87	14	932	71	100	4.51	0.5	7.543	1.342	175	37	47	310
113	115	ABC	098-#3/0 A	7.22Y	120.3	0.20	5.72	31.76	11	689	15	100	1.11	0.2	8.072	0.530	34	8	7	240
900	113	ABC	Capacitor	7.22Y	120.3	0.00	5.72	30.18	0	653	7	100	0.00	0.0	8.072	0.000	0	0	0	233
803	900	ABC	098-#3/0 A	7.20Y	120.0	0.24	5.96	30.88	10	653	142	98	1.07	0.2	8.620	0.548	48	10	11	233
231	803	ABC	098-#3/0 A	7.20Y	120.0	0.05	6.01	5.55	2	117	25	98	0.03	0.0	9.909	1.289	117	25	25	25
OCR-114	803	A	006- 35-H	7.20Y	120.0	0.00	5.96	15.65	45	110	24	98	0.00	0.0	8.620	0.000	0	0	0	39
114	OCR-114	A	106-#2 ACS	7.16Y	119.3	0.75	6.70	15.65	9	110	24	98	0.40	0.4	11.640	3.019	110	23	39	39
P 4094	114	A	106-#2 ACS	7.16Y	119.3	0.00	6.70	0.00	0	0	0	0	0.00	0.0	11.952	0.312	0	0	0	0 P
4036	803	ABC	098-#3/0 A	7.20Y	120.0	0.08	6.04	17.85	6	377	82	98	0.21	0.1	8.923	0.303	2	0	1	158
OCR-112	4036	ABC	007- 50-H	7.20Y	120.0	0.00	6.04	17.74	35	374	81	98	0.00	0.0	8.923	0.000	0	0	0	157
112	OCR-112	ABC	098-#3/0 A	7.18Y	119.7	0.28	6.32	17.74	6	374	81	98	0.67	0.2	10.178	1.255	104	22	24	157
804	112	ABC	098-#3/0 A	7.17Y	119.5	0.19	6.50	12.82	4	270	58	98	0.33	0.1	11.292	1.114	58	12	11	133
OCR-662	804	C	049-100-63	7.17Y	119.5	0.00	6.50	12.17	12	85	18	98	0.00	0.0	11.292	0.000	0	0	0	56
662	OCR-662	C	110-#4 ACS	7.16Y	119.3	0.16	6.66	12.17	9	85	18	98	0.06	0.1	13.030	1.738	85	18	56	56
OCR-568	804	B	046-50-63	7.17Y	119.5	0.00	6.50	5.33	11	37	8	98	0.00	0.0	11.292	0.000	0	0	0	14
568	OCR-568	B	118-#8 A-C	7.15Y	119.1	0.36	6.87	5.33	5	37	8	98	0.07	0.2	13.361	2.069	37	8	14	14
OCR-1804	804	C	049-100-63	7.17Y	119.5	0.00	6.50	12.73	13	89	19	98	0.00	0.0	11.292	0.000	0	0	0	52
1804	OCR-1804	C	110-#4 ACS	7.16Y	119.4	0.08	6.59	12.73	9	89	19	98	0.03	0.0	12.163	0.872	89	19	52	52
FUSE-899	115	B	082-25N FU	7.23Y	120.5	0.00	5.52	9.12	18	64	14	98	0.00	0.0	7.543	0.000	0	0	0	23
899	FUSE-899	B	106-#2 ACS	7.21Y	120.2	0.30	5.82	9.12	5	64	14	98	0.09	0.1	9.621	2.079	64	14	23	23
OCR-654	119	A	049-100-63	7.27Y	121.2	0.00	4.85	14.39	14	102	22	98	0.00	0.0	6.201	0.000	0	0	0	37
654	OCR-654	A	106-#2 ACS	7.25Y	120.8	0.34	5.19	14.39	8	102	22	98	0.22	0.2	7.159	0.958	44	9	17	37
OCR-794	654	A	051-140-63	7.25Y	120.8	0.00	5.19	8.17	6	58	12	98	0.00	0.0	7.159	0.000	0	0	0	20
794	OCR-794	A	106-#2 ACS	7.23Y	120.5	0.27	5.46	8.17	5	58	12	98	0.08	0.1	9.270	2.112	58	12	20	20
P 4126	792	ABC	098-#3/0 A	7.45Y	124.2	0.00	1.76	0.00	0	0	0	0	0.00	0.0	0.727	0.003	0	0	0	0 P
Feeder NO. 4		Beginning with Node Element 8814																		
8814	8810	ABC	Node	7.56Y	126.0	0.00	0.00	22.74	0	500	125	97	0.00	0.0	0.000	0.000	0	0	0	148
791	8814	ABC	098-#3/0 A	7.54Y	125.7	0.26	0.26	22.74	8	500	125	97	0.83	0.2	0.804	0.804	50	12	5	148
75	791	ABC	098-#3/0 A	7.53Y	125.5	0.20	0.46	20.31	7	446	111	97	0.56	0.1	1.499	0.696	55	13	10	142
OCR-647	75	A	006- 35-H	7.53Y	125.5	0.00	0.46	8.63	25	63	16	97	0.00	0.0	1.499	0.000	0	0	0	34
647	OCR-647	A	118-#8 A-C	7.50Y	124.9	0.60	1.06	8.63	9	63	16	97	0.19	0.3	3.606	2.107	63	16	34	34
646	75	ABC	098-#3/0 A	7.52Y	125.3	0.22	0.67	14.94	5	328	82	97	0.45	0.1	2.527	1.027	41	10	6	98
OCR-645	646	C	010- 50-L	7.52Y	125.3	0.00	0.67	23.27	47	170	42	97	0.00	0.0	2.527	0.000	0	0	0	66
645	OCR-645	C	110-#4 ACS	7.51Y	125.1	0.24	0.91	23.27	17	170	42	97	0.15	0.1	3.823	1.297	170	42	66	66
644	646	ABC	098-#3/0 A	7.52Y	125.3	0.04	0.71	5.30	2	116	29	97	0.02	0.0	3.509	0.982	116	29	26	26
4125	791	ABC	098-#3/0 A	7.54Y	125.7	0.00	0.26	0.17	0	4	1	97	0.00	0.0	0.843	0.040	4	1	1	1
Feeder NO. 2		Beginning with Node Element 8812																		
8812	8810	ABC	Node	7.56Y	126.0	0.00	0.00	95.45	0	2100	526	97	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	95.45	191	2100	526	97	0.00	0.0	0.000	0.000	0	0	0	886 C
498	OCR-498	ABC	098-#3/0 A	7.53Y	125.6	0.43	0.43	95.45	32	2100	526	97	5.93	0.3	0.303	0.303	21	8	6	886
821	498	ABC	098-#3/0 A	7.50Y	125.0	0.58	1.01	80.80	27	1782	398	98	6.69	0.4	0.816	0.513	161	62	25	727
OCR-634	821	B	011- 70-L	7.50Y	125.0	0.00	1.01	23.21	33	162	63	93	0.00	0.0	0.816	0.000	0	0	0	95
634	OCR-634	B	110-#4 ACS	7.48Y	124.6	0.35	1.35	23.21	17	162	63	93	0.23	0.1	1.995	1.180	98	38	45	95
866	634	B	117-#6 A-C	7.47Y	124.5	0.12	1.48	9.24	7	64	25	93	0.04	0.1	2.561	0.566	64	25	50	50
96	821	ABC	098-#3/0 A	7.44Y	124.0	0.95	1.96	65.63	22	1452	266	98	9.11	0.6	1.911	1.096	179	74	53	607
OCR-95	96	ABC	012-100-L	7.44Y	124.0	0.00	1.96	31.80	32	662	257	93	0.00	0.0	1.911	0.000	0	0	0	329
95	OCR-95	ABC	106-#2 ACS	7.40Y	123.4	0.68	2.64	31.80	18	662	257	93	3.26	0.5	2.750	0.838	74	29	15	329
OCR-94	95	B	007- 50-H	7.40Y	123.4	0.00	2.64	35.06	70	242	94	93	0.00	0.0	2.750	0.000	0	0	0	141
94	OCR-94	B	118-#8 A-C	7.25Y	120.9	2.51	5.15	35.06	35	242	94	93	3.92	1.6	4.260	1.510	141	54	93	141
832	94	B	118-#8 A-C	7.23Y	120.6	0.30	5.45	14.37	14	97	38	93	0.16	0.2	4.687	0.628	97	37	48	48
OCR-93	95	A	007- 50-H	7.40Y	123.4	0.00	2.64	32.31	65	223	87	93	0.00	0.0	2.750	0.000	0	0	0	107
93	OCR-93	A	102-#1/0 A	7.36Y	122.6	0.76	3.40	32.31	14	223	87	93	0.95	0.4	3.838	1.089	71	27	21	107
FUSE-829	93	A	083-30N FU	7.36Y	122.6	0.00	3.40	21.95	37	151	58	93	0.00	0.0	3.838	0.000	0	0	0	86
829	FUSE-829	A	106-#2 ACS	7.32Y	121.9	0.67	4.06	21.95	12	151	58	93	0.57	0.4	5.093	1.255	86	33	22	86
831	829	A	117-#6 A-C	7.29Y	121.5	0.42	4.48	9.43	7	64	25	93	0.14	0.2	6.999	1.906	64	25	64	64
OCR-864	95	C</																		

Balanced Voltage Drop Report
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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
OCR-565	92	A	007- 50-H	7.42Y	123.7	0.00	2.26	14.25	29	99	38	93	0.00	0.0	3.230	0.000	0	0	0	78
565	OCR-565	A	117-#6 A-C	7.41Y	123.6	0.18	2.44	14.25	10	99	38	93	0.09	0.1	3.782	0.552	99	38	78	78
OCR-820	498	ABC	011- 70-L	7.53Y	125.6	0.00	0.43	13.81	20	291	113	93	0.00	0.0	0.303	0.000	0	0	0	153
820	OCR-820	ABC	110-#4 ACS	7.53Y	125.4	0.15	0.58	13.81	10	291	113	93	0.20	0.1	1.559	1.256	122	47	87	153
637	820	ABC	110-#4 ACS	7.52Y	125.4	0.04	0.62	8.03	6	169	66	93	0.03	0.0	2.587	1.028	169	66	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	8521	0	0	0	0	0	383	0.00	8904	Lowest Voltage = 118.97 on Element 4924
KVAR	2844	0	-1020	0	0	0	418		2241	Max Accm VoltD = 7.03 on Element 4924
										Max Elem VoltD = 2.63 on Element 556

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Union Star Summer Base

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	Thru Cap	Thru KW	KVAR	PF	Loss	Loss	mi From Src	Length (mi)	Element		Cons	Thru
																	KW	KVAR	On	Cons
8300		ABC	SRC-8300-D	7.56Y	126.0	0.00	0.00	143.41	0	2992	1276	92	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	30.05	0	630	261	92	0.00	0.0	0.000	0.000	0	0	0	210
367	8303	ABC	098-#3/0 A	7.49Y	124.8	1.21	1.21	30.05	10	630	261	92	4.62	0.7	2.634	2.634	82	33	17	210
368	367	ABC	098-#3/0 A	7.45Y	124.2	0.62	1.83	26.14	9	543	222	93	2.13	0.4	4.152	1.517	35	14	6	193
371	368	ABC	098-#3/0 A	7.42Y	123.6	0.53	2.36	20.77	7	430	175	93	1.34	0.3	5.921	1.770	104	42	25	146
4019	371	A	118-#8 A-C	7.39Y	123.1	0.53	2.89	21.61	22	149	60	93	0.58	0.4	6.339	0.418	38	15	6	59
OCR-374	4019	A	005-25-H	7.39Y	123.1	0.00	2.89	16.08	64	110	45	93	0.00	0.0	6.339	0.000	0	0	0	53
374	OCR-374	A	106-#2 ACS	7.33Y	122.1	1.01	3.89	16.08	9	110	45	93	0.52	0.5	10.018	3.678	110	44	53	53
4018	371	B	117-#6 A-C	7.41Y	123.5	0.17	2.53	11.59	8	80	32	93	0.09	0.1	6.298	0.377	25	10	3	27
OCR-372	4018	B	005-25-H	7.41Y	123.5	0.00	2.53	7.91	32	54	22	93	0.00	0.0	6.298	0.000	0	0	0	24
372	OCR-372	B	117-#6 A-C	7.39Y	123.2	0.30	2.83	7.91	6	54	22	93	0.08	0.2	7.905	1.607	54	22	24	24
375	371	B	117-#6 A-C	7.38Y	123.0	0.64	3.00	14.02	10	96	39	93	0.31	0.3	7.868	1.947	96	39	35	35
OCR-370	368	C	060-35-4H	7.45Y	124.2	0.00	1.83	11.04	32	76	31	93	0.00	0.0	4.152	0.000	0	0	0	41
370	OCR-370	C	110-#4 ACS	7.43Y	123.9	0.30	2.13	11.04	8	76	31	93	0.08	0.1	7.114	2.963	76	31	41	41
Feeder NO. 2 Beginning with Node Element 8302																				
8302	8300	ABC	Node	7.56Y	126.0	0.00	0.00	50.76	0	1058	454	92	0.00	0.0	0.000	0.000	0	0	0	304
275	8302	ABC	098-#3/0 A	7.54Y	125.6	0.39	0.39	50.76	17	1058	454	92	2.57	0.2	0.477	0.477	44	18	13	304
274	275	A	118-#8 A-C	7.53Y	125.6	0.05	0.44	1.63	2	11	5	91	0.00	0.0	1.434	0.957	11	5	5	5
273	275	ABC	098-#3/0 A	7.48Y	124.6	0.99	1.38	48.11	16	1000	429	92	6.05	0.6	1.814	1.337	122	49	29	286
OCR-513	273	A	006-35-H	7.48Y	124.6	0.00	1.38	13.00	37	90	37	92	0.00	0.0	1.814	0.000	0	0	0	36
513	OCR-513	A	117-#6 A-C	7.40Y	123.3	1.37	2.75	13.00	9	90	37	92	0.79	0.9	4.716	2.902	41	17	19	36
285	513	A	118-#8 A-C	7.36Y	122.7	0.57	3.31	7.06	7	48	20	92	0.15	0.3	7.105	2.388	48	20	17	17
493	273	ABC	098-#3/0 A	7.39Y	123.2	1.44	2.82	37.91	13	781	336	92	6.96	0.9	4.254	2.439	82	33	19	221
4068	493	ABC	098-#3/0 A	7.39Y	123.1	0.09	2.91	33.94	11	692	295	92	0.41	0.1	4.419	0.166	6	2	2	202
P 4067	4068	ABC	098-#3/0 A	7.39Y	123.1	0.00	2.91	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	123.1	0.00	2.91	33.66	67	686	292	92	0.00	0.0	4.419	0.000	0	0	0	200
272	OCR-272	ABC	098-#3/0 A	7.36Y	122.6	0.49	3.40	33.66	11	686	292	92	2.16	0.3	5.320	0.901	21	8	5	200
FUSE-271	272	ABC	083-30N FU	7.36Y	122.6	0.00	3.40	15.73	26	322	131	93	0.00	0.0	5.320	0.000	0	0	0	97
271	FUSE-271	ABC	098-#3/0 A	7.33Y	122.2	0.42	3.82	15.73	5	322	131	93	0.82	0.3	7.191	1.872	74	30	20	97
270	271	ABC	098-#3/0 A	7.32Y	122.1	0.11	3.93	8.58	3	175	71	93	0.11	0.1	8.208	1.016	78	31	16	50
269	270	C	117-#6 A-C	7.32Y	122.0	0.03	3.96	0.55	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	3.96	13.74	8	93	38	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	3.96	13.74	55	93	38	93	0.00	0.0	8.256	0.000	0	0	0	30
268	OCR-268	A	106-#2 ACS	7.28Y	121.3	0.76	4.71	13.74	8	93	38	93	0.34	0.4	11.500	3.244	93	38	30	30
782	271	A	118-#8 A-C	7.29Y	121.4	0.74	4.57	10.65	11	72	29	93	0.29	0.4	9.272	2.081	72	29	27	27
OCR-896	272	ABC	011-70-L	7.36Y	122.6	0.00	3.40	1.07	2	22	9	93	0.00	0.0	5.320	0.000	0	0	0	4
896	OCR-896	ABC	098-#3/0 A	7.36Y	122.6	0.00	3.40	1.07	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	122.4	0.25	3.65	15.85	5	320	142	91	0.50	0.2	6.329	1.009	39	16	8	94
267	783	ABC	098-#3/0 A	7.32Y	122.0	0.32	3.97	10.20	3	204	95	91	0.33	0.2	9.207	2.878	135	66	43	60
384	267	ABC	116-4-ACWC	7.32Y	122.0	0.03	4.01	1.93	1	39	16	93	0.01	0.0	10.518	1.312	39	16	9	9
383	267	ABC	116-4-ACWC	7.32Y	122.0	0.01	3.98	1.46	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	122.4	0.00	3.65	11.29	19	77	31	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	0.30	3.95	11.29	8	77	31	93	0.12	0.2	7.474	1.145	77	31	26	26
Feeder NO. 1 Beginning with Node Element 8301																				
8301	8300	ABC	Node	7.56Y	126.0	0.00	0.00	62.60	0	1304	561	92	0.00	0.0	0.000	0.000	0	0	0	420
266	8301	ABC	098-#3/0 A	7.50Y	125.0	0.99	0.99	62.60	21	1304	561	92	8.00	0.6	0.993	0.993	83	34	25	420
C OCR-259	266	ABC	006-35-H	7.50Y	125.0	0.00	0.99	58.63	168	1213	519	92	0.00	0.0	0.993	0.000	0	0	0	395
259	OCR-259	ABC	098-#3/0 A	7.34Y	122.3	2.73	3.72	58.63	20	1213	519	92	20.53	1.7	3.989	2.996	115	56	35	395
1259	259	ABC	098-#3/0 A	7.33Y	122.2	0.06	3.78	31.04	10	632	259	93	0.25	0.0	4.108	0.119	0	0	0	234
OCR-265	1259	B	010-50-L	7.33Y	122.2	0.00	3.78	29.32	59	199	81	93	0.00	0.0	4.108	0.000	0	0	0	75
265	OCR-265	B	106-#2 ACS	7.24Y	120.6	1.61	5.39	29.32	16	199	81	93	1.99	1.0	6.106	1.998	76	31	29	75
FUSE-264	265	B	083-30N FU	7.24Y	120.6	0.00	5.39	6.73	11	45	18	93	0.00	0.0	6.106	0.000	0	0	0	19
264	FUSE-264	B	106-#2 ACS	7.23Y	120.4	0.16	5.55	6.73	4	45	18	93	0.04	0.1	7.520	1.414	45	18	19	19
OCR-263	265	B	049-100-63	7.24Y	120.6	0.00	5.39	11.37	11	76	31	93	0.00	0.0	6.106	0.000	0	0	0	27
263	OCR-263	B	106-#2 ACS	7.20Y	120.0	0.66	6.05	11.37	6	76	31	93	0.30	0.4	8.442	2.336	41	17	14	27
OCR-261	263	B	051-140-63	7.20Y	120.0	0.00	6.05	5.20	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	119.7	0.23	6.28	5.20	5	35	14	93	0.04	0.1	9.760	1.317	35	14	13	13
OCR-260	1259	ABC	007-50-H	7.33Y	122.2	0.00	3.78	21.27	43	433	177	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	0.47	4.25	21.27	7	433	177	93	1.29	0.3	5.556	1.448	48	20		

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total	
KW	2925	0	0	0	0	0	67	0.00	2992	Lowest Voltage = 119.72 on Element 261
KVAR	1203	0	0	0	0	0	73		1276	Max Accm VoltD = 6.28 on Element 261
										Max Elem VoltD = 2.73 on Element 259

ANDYVILLE SUMMER 2008

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	Cons On	Cons Thru	
8400		ABC	SRC-8400-D	7.56Y	126.0	0.00	0.00	161.05	0	3323	1517	91	0.00	0.0	0.000	0.000	0	0	0	1070
Feeder NO. 3			Beginning with Node Element 8403																	
8403	8400	ABC	Node	7.56Y	126.0	0.00	0.00	38.21	0	830	249	96	0.00	0.0	0.000	0.000	0	0	0	371
293	8403	ABC	098-#3/0 A	7.53Y	125.5	0.53	0.53	38.21	13	830	249	96	2.83	0.3	0.931	0.931	43	11	22	371
OCR-292	293	C	006-35-H	7.53Y	125.5	0.00	0.53	8.20	23	60	15	97	0.00	0.0	0.931	0.000	0	0	0	43
292	OCR-292	C	117-#6 A-C	7.50Y	125.0	0.45	0.98	8.20	6	60	15	97	0.13	0.2	3.331	2.400	60	15	43	43
291	293	ABC	098-#3/0 A	7.45Y	124.2	1.23	1.77	33.52	11	724	219	96	5.53	0.8	3.546	2.615	106	55	24	306
OCR-290	291	C	006-35-H	7.45Y	124.2	0.00	1.77	5.83	17	42	11	97	0.00	0.0	3.546	0.000	0	0	0	28
290	OCR-290	C	106-#2 ACS	7.44Y	124.1	0.16	1.93	5.83	3	42	11	97	0.03	0.1	5.205	1.659	42	11	28	28
289	291	ABC	098-#3/0 A	7.44Y	124.0	0.24	2.01	26.35	9	570	148	97	0.91	0.2	4.179	0.633	30	7	12	254
OCR-288	289	B	007-50-H	7.44Y	124.0	0.00	2.01	17.74	35	128	33	97	0.00	0.0	4.179	0.000	0	0	0	73
288	OCR-288	B	110-#4 ACS	7.42Y	123.7	0.33	2.35	17.74	13	128	33	97	0.19	0.1	5.869	1.690	76	19	44	73
287	288	B	106-#2 ACS	7.41Y	123.5	0.14	2.48	4.80	3	35	9	97	0.03	0.1	6.953	1.084	13	3	4	18
FUSE-286	287	B	083-30N FU	7.41Y	123.5	0.00	2.48	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	7.41Y	123.5	0.00	2.48	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	7.41Y	123.5	0.00	2.48	2.97	3	21	5	97	0.00	0.0	6.953	0.000	0	0	0	14
284	OCR-284	B	117-#6 A-C	7.40Y	123.3	0.21	2.69	2.97	2	21	5	97	0.03	0.1	9.300	2.347	15	4	12	14
FUSE-283	284	B	083-30N FU	7.40Y	123.3	0.00	2.69	0.88	1	6	2	95	0.00	0.0	9.300	0.000	0	0	0	2
FUSE-283	FUSE-283	B	118-#8 A-C	7.40Y	123.3	0.03	2.71	0.88	1	6	2	95	0.00	0.0	10.150	0.850	6	2	2	2
FUSE-780	288	B	083-30N FU	7.42Y	123.7	0.00	2.35	2.33	4	17	4	97	0.00	0.0	5.869	0.000	0	0	0	11
780	FUSE-780	B	110-#4 ACS	7.42Y	123.6	0.05	2.40	2.33	2	17	4	97	0.00	0.0	8.762	2.893	17	4	11	11
OCR-282	289	ABC	007-50-H	7.44Y	124.0	0.00	2.01	19.07	38	412	106	97	0.00	0.0	4.179	0.000	0	0	0	169
282	OCR-282	ABC	098-#3/0 A	7.40Y	123.4	0.60	2.62	19.07	6	412	106	97	1.50	0.4	6.649	2.470	120	31	59	169
280	282	ABC	098-#3/0 A	7.40Y	123.3	0.05	2.67	13.48	4	290	74	97	0.09	0.0	6.888	0.238	4	1	2	110
FUSE-278	280	ABC	083-30N FU	7.40Y	123.3	0.00	2.67	10.46	17	225	57	97	0.00	0.0	6.888	0.000	0	0	0	76
278	FUSE-278	ABC	098-#3/0 A	7.39Y	123.1	0.21	2.88	10.46	3	225	57	97	0.30	0.1	8.397	1.510	47	12	12	76
OCR-277	278	B	006-35-H	7.39Y	123.1	0.00	2.88	11.14	32	80	20	97	0.00	0.0	8.397	0.000	0	0	0	22
277	OCR-277	B	106-#2 ACS	7.36Y	122.7	0.39	3.27	11.14	6	80	20	97	0.20	0.3	9.651	1.254	22	6	6	22
4961	277	B	106-#2 ACS	7.36Y	122.7	0.08	3.35	5.27	3	38	10	97	0.01	0.0	10.626	0.975	38	10	9	9
FUSE-740	277	B	083-30N FU	7.36Y	122.7	0.00	3.27	2.79	5	20	5	97	0.00	0.0	9.651	0.000	0	0	0	7
740	FUSE-740	B	118-#8 A-C	7.36Y	122.6	0.12	3.38	2.79	3	20	5	97	0.01	0.1	10.913	1.262	20	5	7	7
276	278	ABC	098-#3/0 A	7.39Y	123.1	0.01	2.89	1.51	1	32	8	97	0.00	0.0	9.296	0.899	32	8	11	11
1279	278	C	106-#2 ACS	7.39Y	123.1	0.03	2.91	9.16	5	66	17	97	0.02	0.0	8.506	0.109	0	0	0	31
OCR-279	1279	C	006-35-H	7.39Y	123.1	0.00	2.91	9.16	26	66	17	97	0.00	0.0	8.506	0.000	0	0	0	31
279	OCR-279	C	106-#2 ACS	7.36Y	122.7	0.37	3.28	9.16	5	66	17	97	0.11	0.2	10.995	2.489	65	17	31	31
OCR-4960	280	B	006-35-H	7.40Y	123.3	0.00	2.67	8.49	24	61	15	97	0.00	0.0	6.888	0.000	0	0	0	32
4960	OCR-4960	B	106-#2 ACS	7.39Y	123.1	0.20	2.87	8.49	5	61	15	97	0.06	0.1	8.354	1.466	61	15	32	32
Feeder NO. 2			Beginning with Node Element 8402																	
8402	8400	ABC	Node	7.56Y	126.0	0.00	0.00	61.16	0	1283	527	93	0.00	0.0	0.000	0.000	0	0	0	443
312	8402	ABC	098-#3/0 A	7.43Y	123.9	2.10	2.10	61.16	20	1283	527	93	16.50	1.3	2.212	2.212	137	35	66	443
4043	312	ABC	098-#3/0 A	7.39Y	123.2	0.68	2.78	51.05	17	1045	453	92	4.53	0.4	3.040	0.828	43	11	9	335
311	4043	ABC	098-#3/0 A	7.34Y	122.4	0.83	3.61	49.06	16	997	437	92	5.30	0.5	4.094	1.055	51	13	15	326
4044	311	C	118-#8 A-C	7.34Y	122.3	0.12	3.73	8.40	8	60	15	97	0.06	0.1	4.317	0.223	3	1	1	19
OCR-4045	4044	C	049-100-63	7.34Y	122.3	0.00	3.73	7.99	8	57	14	97	0.00	0.0	4.317	0.000	0	0	0	18
4045	OCR-4045	C	106-#2 ACS	7.33Y	122.1	0.16	3.89	7.99	4	57	14	97	0.04	0.1	5.524	1.207	57	14	18	18
4042	311	ABC	098-#3/0 A	7.33Y	122.2	0.14	3.75	43.95	15	881	402	91	0.82	0.1	4.291	0.197	10	3	3	292
C 310	4042	ABC	010-50-L	7.33Y	122.2	0.00	3.75	43.47	87	869	399	91	0.00	0.0	4.291	0.000	0	0	0	289
310	OCR-310	ABC	098-#3/0 A	7.28Y	121.3	0.93	4.68	43.47	14	869	399	91	4.45	0.5	6.021	1.730	374	265	67	289
4072	310	ABC	098-#3/0 A	7.27Y	121.2	0.10	4.78	20.38	7	430	113	97	0.29	0.1	6.371	0.350	40	10	15	188
4066	4072	ABC	098-#3/0 A	7.27Y	121.2	0.00	4.79	1.17	0	25	6	97	0.00	0.0	6.534	0.162	25	6	4	4
309	4072	ABC	098-#3/0 A	7.27Y	121.1	0.09	4.87	17.32	6	365	96	97	0.20	0.1	6.747	0.375	89	22	32	169
OCR-308	309	C	005-25-H	7.27Y	121.1	0.00	4.87	7.51	30	53	13	97	0.00	0.0	6.747	0.000	0	0	0	32
308	OCR-308	C	106-#2 ACS	7.25Y	120.9	0.23	5.10	7.51	4	53	13	97	0.06	0.1	8.613	1.866	53	13	32	32
307	309	ABC	098-#3/0 A	7.26Y	121.0	0.18	5.04	8.32	3	175	48	96	0.16	0.1	8.865	2.119	120	34	57	77
OCR-306	307	A	005-25-H	7.26Y	121.0	0.00	5.05	7.75	31	55	14	97	0.00	0.0	8.865	0.000	0	0	0	20
306	OCR-306	A	106-#2 ACS	7.25Y	120.8	0.15	5.19	7.75	4	55	14	97	0.05	0.1	9.560	0.695	17	4	8	20
2306	306	A	106-#2 ACS	7.25Y	120.8	0.01	5.20	1.44	1	10	3	96	0.00	0.0	10.065	0.505	10	3	2	2
1306	306	A	106-#2 ACS	7.24Y	120.7	0.06	5.25	3.95	2	28	7	97	0.01	0.0	10.514	0.955	28	7	10	10
FUSE-739	309	A	083-30N FU	7.27Y	121.1	0.00	4.87	6.90	11	49	12	97	0.00	0.0	6.747	0.000	0	0	0	28
739	FUSE-739	A	118-#8 A-C	7.24Y	120.7	0.43	5.30	6.90	7	49	12	97	0.11	0.2	8.612	1.865	48			

Balanced Voltage Drop Report
Source: 8400

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.WM\
Title:
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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	mi From Src	Length (mi)	Element			
							Accum Drop	Thru Amps	% Cap	Thru KW	% Loss						mi From Src	Length (mi)	Cons KW	Cons KVAR
303	OCR-303	B	117-#6 A-C	7.29Y	121.5	0.72	4.46	11.77	8	84	21	97	0.40	0.5	5.423	1.646	31	8	14	49
302	303	B	117-#6 A-C	7.28Y	121.3	0.27	4.74	3.93	3	28	7	97	0.04	0.1	8.470	3.047	28	7	16	16
301	303	B	117-#6 A-C	7.27Y	121.2	0.29	4.75	3.52	3	25	6	97	0.04	0.1	9.017	3.595	25	6	19	19
OCR-736	305	A	006- 35-H	7.43Y	123.8	0.00	2.21	5.88	17	42	11	97	0.00	0.0	2.094	0.000	0	0	0	25
736	OCR-736	A	117-#6 A-C	7.41Y	123.5	0.31	2.52	5.88	4	42	11	97	0.07	0.2	4.424	2.330	42	11	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	GenMotors	Loops&Metas	Losses	No Load Losses	Total		
KW	3240	0	0	0	0	0	83	0.00	3323	Lowest Voltage = 120.38 on Element 4920	
KVAR	1425	0	0	0	0	0	92		1517	Max Accm VoltD = 5.62 on Element 4920	
										Max Elem VoltD = 2.21 on Element 305	

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Battletown Summer 2008

Detail

Balanced Voltage Drop Report
Source: 8500

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
8500		ABC	SRC-8500-D		7.56Y 126.0	0.00	0.00	133.64	0	2909	850	96	0.00	0.0	0.000	0.000	0	0	0	455
Turtle cap	8500	ABC	Capacitor		7.56Y 126.0	0.00	0.00	133.64	0	2909	850	96	0.00	0.0	0.000	0.000	0	0	0	455
Feeder NO. 1		Beginning with Node Element 8501																		
8501	Turtle cap	ABC	Node		7.56Y 126.0	0.00	0.00	19.67	0	415	164	93	0.00	0.0	0.000	0.000	0	0	0	2
FUSE-495	8501	ABC	085-50N FU		7.56Y 126.0	0.00	0.00	19.67	20	415	164	93	0.00	0.0	0.000	0.000	0	0	0	2
495	FUSE-495	ABC	098-#3/O A		7.55Y 125.8	0.24	0.24	19.67	7	425	164	93	0.42	0.1	1.496	1.496	414	164	2	2
Feeder NO. 2		Beginning with Node Element 8502																		
8502	Turtle cap	ABC	Node		7.56Y 126.0	0.00	0.00	19.89	0	415	177	92	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	19.89	7	415	177	92	1.20	0.3	1.583	1.583	61	27	38	304
OCR-330	331	A	006-35-H		7.53Y 125.5	0.00	0.48	5.20	15	39	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	0.24	0.72	5.20	3	39	6	99	0.04	0.1	4.603	3.020	39	6	57	57
329	331	ABC	098-#3/O A		7.53Y 125.4	0.10	0.58	15.05	5	309	142	91	0.17	0.1	2.121	0.538	115	111	7	207
OCR-328	329	ABC	007-50-H		7.53Y 125.4	0.00	0.58	2.87	6	64	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	2.87	1	64	10	99	0.01	0.0	3.080	0.959	11	2	6	59
735	328	ABC	098-#3/O A		7.52Y 125.4	0.04	0.65	2.36	1	53	8	99	0.01	0.0	4.424	1.343	22	3	21	53
334	735	ABC	098-#3/O A		7.52Y 125.3	0.00	0.65	0.67	0	15	2	99	0.00	0.0	5.150	0.727	15	2	10	10
OCR-327	735	A	005-25-H		7.52Y 125.4	0.00	0.65	2.14	9	16	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	0.81	2.14	2	16	3	98	0.01	0.1	6.681	2.257	16	3	22	22
OCR-326	329	ABC	007-50-H		7.53Y 125.4	0.00	0.58	5.81	12	130	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	5.81	2	130	21	99	0.09	0.1	3.775	1.653	50	8	48	141
OCR-325	326	A	006-35-H		7.52Y 125.3	0.00	0.69	3.49	10	26	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	0.79	3.49	2	26	4	99	0.01	0.1	5.800	2.026	26	4	31	31
324	326	ABC	098-#3/O A		7.52Y 125.3	0.03	0.71	2.41	1	54	9	99	0.01	0.0	5.344	1.569	54	9	62	62
FUSE-333	331	C	083-30N FU		7.53Y 125.5	0.00	0.48	0.68	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	0.68	0	5	1	98	0.00	0.0	2.582	0.999	5	1	2	2
Feeder NO. 3		Beginning with Node Element 8503																		
8503	Turtle cap	ABC	Node		7.56Y 126.0	0.00	0.00	103.78	0	2080	1102	88	0.00	0.0	0.000	0.000	0	0	0	149
323	8503	ABC	098-#3/O A		7.47Y 124.6	1.42	1.42	103.78	35	2080	1102	88	18.73	0.9	0.807	0.807	17	10	16	149
OCR-320	323	C	007-50-H		7.47Y 124.6	0.00	1.42	0.00	0	0	0	0.00	0.0	0.807	0.000	0	0	0	0	
P 320	OCR-320	C	118-#8 A-C		7.47Y 124.6	0.00	1.42	0.00	0	0	0	0.00	0.0	3.381	2.573	0	0	0	0	
4112	323	ABC	098-#3/O A		7.38Y 122.9	1.65	3.07	102.91	34	2044	1072	89	21.75	1.1	1.754	0.947	0	0	0	133
837	4112	ABC	Regulator		7.56Y 126.0	-3.07	0.00	102.91	31	2022	1047	89	0.00	0.0	1.754	0.000	0	0	0	133
322	837	ABC	098-#3/O A		7.50Y 125.1	0.94	0.94	100.41	33	2022	1047	89	12.10	0.6	2.309	0.555	7	4	4	133
OCR-321	322	ABC	007-50-H		7.50Y 125.1	0.00	0.94	33.46	67	732	-176	-97	0.00	0.0	2.309	0.000	0	0	0	78
321	OCR-321	ABC	106-#2 ACS		7.44Y 124.0	1.07	2.01	33.46	19	732	-176	-97	7.82	1.1	4.004	1.695	26	15	20	78
OCR-317	321	B	007-50-H		7.44Y 124.0	0.00	2.01	5.55	11	36	20	87	0.00	0.0	4.004	0.000	0	0	0	40
317	OCR-317	B	110-#4 ACS		7.43Y 123.8	0.18	2.19	5.55	4	36	20	87	0.03	0.1	6.012	2.008	14	8	13	40
316	317	B	110-#4 ACS		7.43Y 123.8	0.03	2.23	3.36	2	22	12	88	0.00	0.0	6.523	0.510	0	0	0	27
OCR-315	316	B	005-25-H		7.43Y 123.8	0.00	2.23	3.36	13	22	12	88	0.00	0.0	6.523	0.000	0	0	0	27
315	OCR-315	B	110-#4 ACS		7.42Y 123.6	0.15	2.38	3.36	2	22	12	88	0.01	0.1	10.313	3.790	18	10	21	27
314	315	B	118-#8 A-C		7.42Y 123.6	0.02	2.40	0.54	1	3	2	83	0.00	0.0	11.250	0.938	3	2	6	6
4002	321	ABC	Capacitor		7.44Y 124.0	0.00	2.01	30.68	0	647	-225	-94	0.00	0.0	4.004	0.000	0	0	0	2
C OCR-839	4002	ABC	006-35-H		7.44Y 124.0	0.00	2.01	40.67	116	647	637	71	0.00	0.0	4.004	0.000	0	0	0	2
P 839	OCR-839	ABC	098-#3/O A		7.42Y 123.6	0.36	2.37	40.67	14	647	637	71	1.17	0.2	4.982	0.978	645	636	2	2
P 843	839	ABC	220-500 MC		7.42Y 123.6	0.00	2.37	0.00	0	0	0	0.00	0.0	5.117	0.135	0	0	0	0	
OCR-840	321	B	006-35-H		7.44Y 124.0	0.00	2.01	2.54	7	16	9	87	0.00	0.0	4.004	0.000	0	0	0	16
840	OCR-840	B	106-#2 ACS		7.43Y 123.9	0.07	2.09	2.54	1	16	9	87	0.01	0.0	4.843	0.839	0	0	0	16
842	840	B	220-500 MC		7.43Y 123.9	0.00	2.09	2.11	1	14	8	87	0.00	0.0	4.994	0.151	0	0	0	12
FUSE-318	842	B	081-20N FU		7.43Y 123.9	0.00	2.09	2.11	5	14	8	87	0.00	0.0	4.994	0.000	0	0	0	12
318	FUSE-318	B	117-#6 A-C		7.43Y 123.8	0.09	2.18	2.11	2	14	8	87	0.01	0.0	6.763	1.769	14	8	12	12
OCR-841	840	B	049-100-63		7.43Y 123.9	0.00	2.09	0.43	0	3	2	83	0.00	0.0	4.843	0.000	0	0	0	4
841	OCR-841	B	117-#6 A-C		7.43Y 123.9	0.02	2.11	0.43	0	3	2	83	0.00	0.0	6.704	1.861	3	2	4	4
P 494	322	ABC	098-#3/O A		7.35Y 122.5	2.54	3.48	77.84	26	1271	1206	73	23.63	1.9	4.129	1.820	24	14	28	51
P 4071	494	ABC	098-#3/O A		7.29Y 121.4	1.10	4.58	76.64	26	1224	1166	72	10.06	0.8	4.924	0.795	13	7	8	23
C OCR-294	4071	ABC	012-100-L		7.29Y 121.4	0.00	4.58	76.00	76	1201	1147	72	0.00	0.0	4.924	0.000	0	0	0	15
P 294	OCR-294	ABC	098-#3/O A		7.17Y 119.5	1.93	6.51	76.00	25	1201	1147	72	16.63	1.4	6.458	1.534	194	192	11	15
P 4031	294	ABC	098-#3/O A		7.14Y 119.1	0.43	6.94	63.35	21	990	936	73	3.22	0.3	6.840	0.381	38	33	2	4
P 835	4031	ABC	098-#3/O A		7.14Y 118.9	0.12	7.06	61.00	20	949	900	73	0.58	0.1	7.056	0.217	948	899	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	2792	0	0	0	0	0	118	0.00	2909	850	Lowest Voltage = 118.94	on Element 835
KVAR	2177	0	-1456	0	0	0	128		850	850	Max Accm VoltD = 7.06	on Element 835
											Max Elem VoltD = 2.54	on Element 494

Brandenburg Summer 2008

Detail

Balanced Voltage Drop Report
Source: 8900

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	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
8900		ABC	SRC-8900-D	7.56Y	126.0	0.00	0.00	624.43	0	12725	6217	90	0.00	0.0	0.000	0.000	0	0	0	2507
----- Feeder NO. 6 Beginning with Node Element 8906																				
8906	8900	ABC	Node	7.56Y	126.0	0.00	0.00	117.44	0	2503	912	94	0.00	0.0	0.000	0.000	0	0	0	736
339	8906	ABC	098-#3/0 A	7.39Y	123.1	2.89	2.89	117.44	39	2503	912	94	46.11	1.8	1.557	1.557	31	9	12	736
700	339	ABC	098-#3/0 A	7.38Y	123.1	0.05	2.95	11.52	4	227	116	89	0.07	0.0	1.952	0.395	105	88	15	78
701	700	ABC	098-#3/0 A	7.38Y	123.0	0.01	2.96	5.66	2	122	28	97	0.01	0.0	2.286	0.334	122	28	63	63
522	339	ABC	090-336 AC	7.37Y	122.8	0.30	3.19	104.59	20	2198	735	95	3.31	0.2	1.920	0.363	5	1	1	646
338	522	ABC	098-#3/0 A	7.31Y	121.9	0.94	4.13	40.04	13	835	294	94	4.60	0.6	3.758	1.838	269	156	62	230
OCR-512	338	ABC	011-70-L	7.31Y	121.9	0.00	4.13	26.31	38	562	133	97	0.00	0.0	3.758	0.000	0	0	0	168
512	OCR-512	ABC	098-#3/0 A	7.29Y	121.5	0.34	4.46	26.31	9	562	133	97	1.24	0.2	4.663	0.905	58	13	15	168
337	512	ABC	098-#3/0 A	7.27Y	121.2	0.36	4.83	20.91	7	445	105	97	1.03	0.2	5.983	1.320	101	24	31	144
336	337	ABC	098-#3/0 A	7.26Y	121.1	0.12	4.94	8.49	3	180	42	97	0.13	0.1	7.064	1.081	54	13	16	59
335	336	C	106-#2 ACS	7.26Y	120.9	0.14	5.08	17.81	10	126	29	97	0.12	0.1	7.337	0.273	26	6	8	43
4095	335	C	106-#2 ACS	7.24Y	120.6	0.32	5.41	14.15	8	100	23	97	0.21	0.2	8.182	0.845	30	7	14	35
4096	4095	C	106-#2 ACS	7.23Y	120.5	0.11	5.51	9.86	5	69	16	97	0.05	0.1	8.574	0.392	18	4	5	21
4097	4096	C	106-#2 ACS	7.22Y	120.4	0.08	5.59	7.31	4	51	12	97	0.03	0.1	9.027	0.453	24	6	6	16
SECTZR-4098	4097	C	099-SECTIO	7.22Y	120.4	0.00	5.59	3.92	16	28	6	98	0.00	0.0	9.027	0.000	0	0	0	10
4098	SECTZR-4098	C	106-#2 ACS	7.22Y	120.4	0.02	5.61	3.92	2	28	6	98	0.00	0.0	9.163	0.136	0	0	0	10
4099	4098	C	106-#2 ACS	7.22Y	120.4	0.03	5.64	3.92	2	28	6	98	0.00	0.0	9.710	0.547	28	6	10	10
998	337	A	106-#2 ACS	7.25Y	120.9	0.28	5.11	11.23	6	80	19	97	0.11	0.1	7.552	1.569	79	18	27	27
FUSE-511	337	C	083-30N FU	7.27Y	121.2	0.00	4.83	11.72	20	83	19	97	0.00	0.0	5.983	0.000	0	0	0	27
511	FUSE-511	C	110-#4 ACS	7.27Y	121.1	0.06	4.88	11.72	8	83	19	97	0.02	0.0	6.616	0.633	83	19	27	27
FUSE-918	512	B	084-40N FU	7.29Y	121.5	0.00	4.46	8.04	10	57	13	97	0.00	0.0	4.663	0.000	0	0	0	9
918	FUSE-918	B	106-#2 ACS	7.29Y	121.4	0.11	4.57	8.04	4	57	13	97	0.03	0.1	5.514	0.851	57	13	9	9
4128	522	ABC	090-336 AC	7.37Y	122.8	0.03	3.22	64.34	12	1355	432	95	0.22	0.0	1.984	0.064	0	0	0	415
4064	4128	ABC	098-#3/0 A	7.36Y	122.7	0.10	3.31	9.23	3	173	108	85	0.07	0.0	3.174	1.191	173	108	34	34
OCR-523	4128	ABC	012-100-L	7.37Y	122.8	0.00	3.22	55.45	55	1182	323	96	0.00	0.0	1.984	0.000	0	0	0	381
523	OCR-523	ABC	098-#3/0 A	7.33Y	122.1	0.66	3.88	55.45	18	1182	323	96	4.83	0.4	2.883	0.899	274	104	64	381
4926	523	ABC	098-#3/0 A	7.31Y	121.8	0.33	4.21	42.22	14	903	213	97	1.96	0.2	3.430	0.547	80	19	18	317
524	4926	ABC	098-#3/0 A	7.29Y	121.5	0.32	4.53	34.04	11	726	171	97	1.38	0.2	4.227	0.798	297	69	109	267
822	524	ABC	098-#3/0 A	7.28Y	121.3	0.21	4.74	20.09	7	428	100	97	0.61	0.1	4.948	0.721	20	5	5	158
OCR-705	822	A	049-100-63	7.28Y	121.3	0.00	4.74	11.38	11	81	19	97	0.00	0.0	4.948	0.000	0	0	0	40
705	OCR-705	A	106-#2 ACS	7.26Y	121.1	0.19	4.92	11.38	6	81	19	97	0.07	0.1	5.976	1.028	81	19	40	40
FUSE-516	822	A	083-30N FU	7.28Y	121.3	0.00	4.74	12.57	21	89	21	97	0.00	0.0	4.948	0.000	0	0	0	32
516	FUSE-516	A	110-#4 ACS	7.27Y	121.2	0.09	4.83	12.57	9	89	21	97	0.03	0.0	5.921	0.973	89	21	32	32
OCR-344	822	ABC	049-100-63	7.28Y	121.3	0.00	4.74	11.19	11	238	55	97	0.00	0.0	4.948	0.000	0	0	0	81
344	OCR-344	ABC	098-#3/0 A	7.27Y	121.2	0.10	4.84	11.19	4	238	55	97	0.13	0.1	5.797	0.849	134	31	48	81
OCR-517	344	C	049-100-63	7.27Y	121.2	0.00	4.84	14.67	15	104	24	97	0.00	0.0	5.797	0.000	0	0	0	33
517	OCR-517	C	106-#2 ACS	7.25Y	120.8	0.32	5.15	14.67	8	104	24	97	0.16	0.2	7.148	1.351	104	24	33	33
OCR-4927	4926	A	049-100-63	7.31Y	121.8	0.00	4.21	13.26	13	94	22	97	0.00	0.0	3.430	0.000	0	0	0	32
4927	OCR-4927	A	110-#4 ACS	7.30Y	121.7	0.08	4.28	13.26	9	94	22	97	0.03	0.0	4.182	0.752	94	22	32	32
----- Feeder NO. 5 Beginning with Node Element 8905																				
8905	8900	ABC	Node	7.56Y	126.0	0.00	0.00	110.84	0	2233	1155	89	0.00	0.0	0.000	0.000	0	0	0	477
C FUSE-347	8905	ABC	083-30N FU	7.56Y	126.0	0.00	0.00	110.84	185	2233	1155	89	0.00	0.0	0.000	0.000	0	0	0	477 C
C 347	FUSE-347	ABC	110-#4 ACS	7.40Y	123.4	2.63	2.63	110.84	79	2233	1155	89	28.28	1.3	2.325	2.325	414	309	87	477 C
503	347	ABC	098-#3/0 A	7.32Y	122.0	1.34	3.97	88.18	29	1790	793	91	14.59	0.8	3.358	1.033	305	236	39	390
346	503	ABC	098-#3/0 A	7.28Y	121.4	0.62	4.60	51.42	17	1076	345	95	4.10	0.4	4.248	0.890	248	114	68	311
4063	346	ABC	098-#3/0 A	7.23Y	120.6	0.82	5.42	39.06	13	823	226	96	4.34	0.5	5.761	1.513	138	32	59	243
OCR-345	4063	ABC	007-50-H	7.23Y	120.6	0.00	5.42	12.28	25	259	61	97	0.00	0.0	5.761	0.000	0	0	0	85
345	OCR-345	ABC	098-#3/0 A	7.22Y	120.3	0.29	5.71	12.28	4	259	61	97	0.49	0.2	7.498	1.737	46	11	13	85
P 4065	345	ABC	098-#3/0 A	7.22Y	120.3	0.00	5.71	0.00	0	0	0	0	0.00	0.0	7.522	0.024	0	0	0	0 P
4047	345	A	106-#2 ACS	7.21Y	120.2	0.13	5.84	13.49	7	95	22	97	0.06	0.1	8.122	0.624	95	22	35	35
496	345	ABC	098-#3/0 A	7.21Y	120.2	0.05	5.76	5.61	2	118	28	97	0.04	0.0	8.183	0.685	27	6	7	37
343	496	ABC	098-#3/0 A	7.21Y	120.2	0.01	5.77	1.51	1	32	7	98	0.00	0.0	8.765	0.582	32	7	8	8
FUSE-996	496	A	083-30N FU	7.21Y	120.2	0.00	5.76	8.48	14	60	14	97	0.00	0.0	8.183	0.000	0	0	0	22
996	FUSE-996	A	106-#2 ACS	7.20Y	120.1	0.17	5.93	8.48	5	60	14	97	0.05	0.1	9.478	1.295	60	14	22	22
342	4063	ABC	098-#3/0 A	7.22Y	120.4	0.16	5.58	14.74	5	303	101	95	0.31	0.1	6.542	0.781	63	15	17	68
OCR-341	342	C	007-50-H	7.22Y	120.4	0.00	5.58	22.02	44	155	36	97	0.00	0.0	6.542	0.000	0	0	0	34
341	OCR-341	C	106-#2 ACS	7.18Y	119.6	0.79	6.37	22.02	12	155	36	97	0.80	0.5	7.876	1.334	49	11	13	34
4139	341	C	106-#																	

Balanced Voltage Drop Report
Source: 8900

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	% Loss	mi From Src	Length (mi)	Element			
																KW	KVAR	On	Cons Thru	
529	OCR-529	ABC	098-#3/0 A	7.37Y	122.8	0.86	3.17	44.54	15	965	230	97	5.17	0.5	3.738	1.476	225	52	83	326
OCR-528	529	A	006-35-H	7.37Y	122.8	0.00	3.17	11.00	31	79	18	98	0.00	0.0	3.738	0.000	0	0	0	31
528	OCR-528	A	117-#6 A-C	7.35Y	122.4	0.41	3.58	11.00	8	79	18	98	0.16	0.2	5.389	1.651	79	18	31	31
531	529	ABC	098-#3/0 A	7.35Y	122.6	0.26	3.43	27.27	9	587	137	97	0.96	0.2	4.475	0.737	143	33	29	187
351	531	ABC	098-#3/0 A	7.35Y	122.6	0.02	3.45	2.86	1	61	14	97	0.00	0.0	5.194	0.719	61	14	24	24
350	531	ABC	116-4-ACWC	7.33Y	122.2	0.33	3.76	17.76	10	382	89	97	0.82	0.2	5.421	0.946	174	40	70	134
OCR-349	350	ABC	011-70-L	7.33Y	122.2	0.00	3.76	6.22	9	133	31	97	0.00	0.0	5.421	0.000	0	0	0	33
349	OCR-349	ABC	098-#3/0 A	7.33Y	122.2	0.07	3.83	6.22	2	133	31	97	0.05	0.0	6.509	1.088	80	19	22	33
OCR-750	349	ABC	011-70-L	7.33Y	122.2	0.00	3.83	2.48	4	53	12	98	0.00	0.0	6.509	0.000	0	0	0	11
750	OCR-750	ABC	098-#3/0 A	7.33Y	122.1	0.02	3.86	2.48	1	53	12	98	0.01	0.0	7.781	1.272	53	12	11	11
OCR-348	350	B	006-35-H	7.33Y	122.2	0.00	3.76	10.23	29	73	17	97	0.00	0.0	5.421	0.000	0	0	0	31
348	OCR-348	B	106-#2 ACS	7.31Y	121.9	0.35	4.12	10.23	6	73	17	97	0.12	0.2	7.589	2.168	73	17	31	31
FUSE-530	529	A	083-30W FU	7.37Y	122.8	0.00	3.17	9.55	16	69	16	97	0.00	0.0	3.738	0.000	0	0	0	25
530	FUSE-530	A	110-#4 ACS	7.37Y	122.8	0.05	3.22	9.55	7	69	16	97	0.01	0.0	4.430	0.692	69	16	25	25
Feeder NO. 3 Beginning with Node Element 8903																				
8903	8900	ABC	Node	7.56Y	126.0	0.00	0.00	109.15	0	2210	1114	89	0.00	0.0	0.000	0.000	0	0	0	436
4058	8903	ABC	098-#3/0 A	7.55Y	125.8	0.16	0.16	109.15	36	2210	1114	89	2.03	0.1	0.108	0.108	677	529	38	436
354	4058	ABC	098-#3/0 A	7.50Y	125.0	0.81	0.98	72.37	24	1532	583	93	7.51	0.5	0.879	0.770	249	133	53	398
4059	354	ABC	098-#3/0 A	7.50Y	125.0	0.05	1.03	23.30	8	461	250	88	0.13	0.0	1.053	0.174	202	150	26	56
4060	4059	ABC	098-#3/0 A	7.50Y	124.9	0.02	1.05	12.35	4	259	101	93	0.02	0.0	1.279	0.226	259	101	30	30
P 4061	4060	ABC	098-#3/0 A	7.50Y	124.9	0.00	1.05	0.00	0	0	0	0	0.00	0.0	1.310	0.031	0	0	0	0 P
624	354	ABC	098-#3/0 A	7.47Y	124.5	0.56	1.54	28.16	9	617	145	97	1.99	0.3	2.603	1.725	267	62	82	199
429	624	ABC	098-#3/0 A	7.46Y	124.3	0.16	1.70	15.95	5	348	81	97	0.27	0.1	3.720	1.117	282	65	94	117
OCR-353	429	C	006-35-H	7.46Y	124.3	0.00	1.70	9.04	26	66	15	98	0.00	0.0	3.720	0.000	0	0	0	23
353	OCR-353	C	106-#2 ACS	7.45Y	124.2	0.12	1.82	9.04	5	66	15	98	0.04	0.1	4.559	0.839	66	15	23	23
615	354	ABC	098-#3/0 A	7.49Y	124.8	0.22	1.19	9.02	3	198	46	97	0.22	0.1	3.235	2.356	124	29	50	90
OCR-584	615	A	007-50-H	7.49Y	124.8	0.00	1.19	10.02	20	73	17	97	0.00	0.0	3.235	0.000	0	0	0	40
584	OCR-584	A	106-#2 ACS	7.47Y	124.6	0.25	1.44	10.02	6	73	17	97	0.09	0.1	4.812	1.577	73	17	40	40
Feeder NO. 2 Beginning with Node Element 8902																				
8902	8900	ABC	Node	7.56Y	126.0	0.00	0.00	134.25	0	2540	1679	83	0.00	0.0	0.000	0.000	0	0	0	60
203	8902	ABC	098-#3/0 A	7.52Y	125.3	0.66	0.66	134.25	45	2540	1679	83	10.04	0.4	0.327	0.327	648	493	2	60
4055	203	ABC	098-#3/0 A	7.51Y	125.2	0.10	0.76	98.32	33	1881	1175	85	1.16	0.1	0.384	0.057	82	53	2	58
4056	4055	ABC	098-#3/0 A	7.50Y	125.0	0.22	0.98	94.01	31	1799	1121	85	1.83	0.1	0.631	0.246	1487	1100	48	56
852	4056	ABC	Capacitor	7.50Y	125.0	0.00	0.98	13.79	0	310	19	100	0.00	0.0	0.631	0.000	0	0	0	8
4057	852	ABC	098-#3/0 A	7.50Y	125.0	0.01	0.99	15.96	5	310	182	86	0.01	0.0	0.669	0.038	310	182	8	8
P 854	852	ABC	098-#3/0 A	7.50Y	125.0	0.00	0.98	0.00	0	0	0	0	0.00	0.0	0.676	0.045	0	0	0	0 P
P 4054	203	ABC	098-#3/0 A	7.52Y	125.3	0.00	0.66	0.00	0	0	0	0	0.00	0.0	0.333	0.006	0	0	0	0 P
Feeder NO. 1 Beginning with Node Element 8901																				
8901	8900	ABC	Node	7.56Y	126.0	0.00	0.00	75.98	0	1522	807	88	0.00	0.0	0.000	0.000	0	0	0	319
365	8901	ABC	098-#3/0 A	7.50Y	125.0	0.97	0.97	75.98	25	1522	807	88	8.90	0.6	0.808	0.808	274	64	109	319
363	365	ABC	098-#3/0 A	7.39Y	123.2	1.83	2.80	57.42	19	1096	685	85	12.39	1.1	2.817	2.009	188	113	21	172
362	363	ABC	098-#3/0 A	7.37Y	122.8	0.36	3.16	27.28	9	563	222	93	1.31	0.2	3.627	0.810	0	0	0	146
594	362	ABC	098-#3/0 A	7.36Y	122.7	0.14	3.30	27.28	9	561	220	93	0.50	0.1	3.945	0.318	17	4	2	146
360	594	ABC	098-#3/0 A	7.35Y	122.5	0.22	3.51	26.50	9	544	216	93	0.72	0.1	4.516	0.572	92	81	4	144
359	360	ABC	098-#3/0 A	7.34Y	122.3	0.17	3.68	21.36	7	451	134	96	0.51	0.1	5.028	0.511	0	0	0	140
FUSE-358	359	ABC	081-20N FU	7.34Y	122.3	0.00	3.68	1.16	3	25	7	96	0.00	0.0	5.028	0.000	0	0	0	10
358	FUSE-358	ABC	098-#3/0 A	7.34Y	122.3	0.01	3.69	1.16	0	25	7	96	0.00	0.0	5.637	0.609	15	5	5	10
595	358	B	117-#6 A-C	7.34Y	122.3	0.02	3.71	1.32	1	9	2	98	0.00	0.0	6.333	0.696	9	2	5	5
357	359	ABC	098-#3/0 A	7.33Y	122.2	0.15	3.84	13.01	4	276	77	96	0.28	0.1	5.867	0.839	30	20	4	80
OCR-752	357	ABC	006-35-H	7.33Y	122.2	0.00	3.84	11.46	33	245	57	97	0.00	0.0	5.867	0.000	0	0	0	76
752	OCR-752	ABC	098-#3/0 A	7.32Y	122.0	0.12	3.96	11.46	4	245	57	97	0.13	0.1	7.266	1.399	245	57	76	76
596	359	ABC	098-#3/0 A	7.34Y	122.3	0.01	3.70	7.19	2	151	49	95	0.01	0.0	5.282	0.255	151	49	50	50
P 364	363	ABC	098-#3/0 A	7.38Y	123.0	0.23	3.03	21.30	7	332	336	70	0.39	0.1	4.020	1.204	332	335	5	5 P
585	365	ABC	110-#4 ACS	7.50Y	125.0	0.01	0.98	6.75	5	144	49	95	0.01	0.0	1.172	0.364	144	49	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	12524	0	0	0	0	0	201	0.00	12725	Lowest Voltage = 119.52	on Element 4138	
KVAR	6129	0	-163	0	0	0	251		6217	Max Accm VoltD = 6.48	on Element 4138	
										Max Elem VoltD = 2.89	on Element 339	

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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	kW Loss	% Loss	mi From Src	Length (mi)	Element		Cons On	Cons Thru
8200			ABC SRC-8200-D	7.56Y	126.0	0.00	0.00	234.50	0	4626	2624	87	0.00	0.0	0.000	0.000	0	0	0	1140
Feeder NO. 5 Beginning with Node Element 8205																				
8205	8200		ABC Node	7.56Y	126.0	0.00	0.00	41.61	0	824	460	87	0.00	0.0	0.000	0.000	0	0	0	294
144	8205		ABC 098-#3/0 A	7.54Y	125.7	0.26	0.26	41.61	14	824	460	87	1.30	0.2	0.381	0.381	92	48	26	294
4821	144		ABC 098-#3/0 A	7.54Y	125.7	0.08	0.34	37.04	12	731	411	87	0.37	0.1	0.515	0.134	59	31	22	268
4822	4821		ABC 098-#3/0 A	7.54Y	125.6	0.07	0.41	34.12	11	672	380	87	0.29	0.0	0.634	0.119	33	17	5	246
4824	4822		ABC 098-#3/0 A	7.53Y	125.5	0.08	0.48	32.48	11	639	362	87	0.30	0.0	0.779	0.145	70	36	24	241
770	4824		ABC 098-#3/0 A	7.51Y	125.2	0.31	0.80	29.00	10	569	325	87	0.83	0.1	1.849	1.070	465	271	174	217
P 4953	770		ABC 098-#3/0 A	7.51Y	125.2	0.00	0.80	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	7.51Y	125.2	0.00	0.80	6.28	6	42	22	89	0.00	0.0	1.849	0.000	0	0	0	13
1772	OCR-1772		C 106-#2 ACS	7.51Y	125.2	0.02	0.81	6.28	3	42	22	89	0.00	0.0	2.002	0.153	42	22	13	13
OCR-1771	770		A 049-100-63	7.51Y	125.2	0.00	0.80	9.11	9	61	32	89	0.00	0.0	1.849	0.000	0	0	0	30
1771	OCR-1771		A 106-#2 ACS	7.51Y	125.2	0.03	0.83	9.11	5	61	32	89	0.01	0.0	2.066	0.217	61	32	30	30
P 4124	144		ABC 098-#3/0 A	7.54Y	125.7	0.00	0.26	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	51.16	0	1001	586	86	0.00	0.0	0.000	0.000	0	0	0	267
142	8204		ABC 098-#3/0 A	7.52Y	125.3	0.75	0.75	51.16	17	1001	586	86	4.27	0.4	1.022	1.022	340	199	90	267
137	142		ABC 098-#3/0 A	7.50Y	125.0	0.22	0.97	30.31	10	588	347	86	0.75	0.1	1.534	0.512	202	110	75	152
4956	137		ABC 098-#3/0 A	7.50Y	125.0	0.04	1.01	17.55	6	335	210	85	0.08	0.0	1.676	0.142	60	31	20	59
4957	4956		ABC 098-#3/0 A	7.50Y	125.0	0.02	1.04	14.57	5	275	178	84	0.03	0.0	1.865	0.188	275	178	39	39
4955	137		ABC 098-#3/0 A	7.50Y	125.0	0.00	0.97	2.56	1	51	27	88	0.00	0.0	1.557	0.023	0	0	0	18
4954	4955		ABC 098-#3/0 A	7.50Y	125.0	0.00	0.98	2.56	1	51	27	88	0.00	0.0	1.705	0.148	51	27	18	18
P 4120	142		ABC 098-#3/0 A	7.52Y	125.3	0.00	0.75	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	7.52Y	125.3	0.00	0.75	10.31	10	69	36	89	0.00	0.0	1.022	0.000	0	0	0	25
771	OCR-771		C 117-#6 A-C	7.51Y	125.2	0.06	0.81	10.31	7	69	36	89	0.02	0.0	1.255	0.232	69	36	25	25
Feeder NO. 3 Beginning with Node Element 8203																				
8203	8200		ABC Node	7.56Y	126.0	0.00	0.00	67.96	0	1354	737	88	0.00	0.0	0.000	0.000	0	0	0	332
141	8203		ABC 098-#3/0 A	7.48Y	124.6	1.41	1.41	67.96	23	1354	737	88	11.65	0.9	1.300	1.300	178	93	58	332
C OCR-139	141		ABC 007- 50-H	7.48Y	124.6	0.00	1.41	38.52	77	756	418	88	0.00	0.0	1.300	0.000	0	0	0	179 C
139	OCR-139		ABC 098-#3/0 A	7.44Y	124.0	0.59	2.00	38.52	13	756	418	88	2.67	0.4	2.311	1.010	160	103	15	179
136	139		ABC 098-#3/0 A	7.36Y	122.6	1.40	3.40	24.93	8	492	259	88	3.89	0.8	6.422	4.111	190	99	57	129
134	136		ABC 098-#3/0 A	7.34Y	122.4	0.23	3.63	13.49	4	264	138	89	0.37	0.1	7.500	1.078	42	22	9	60
OCR-132	134		C 006- 35-H	7.34Y	122.4	0.00	3.63	1.84	5	12	6	89	0.00	0.0	7.500	0.000	0	0	0	9
132	OCR-132		C 117-#6 A-C	7.34Y	122.3	0.10	3.73	1.84	1	12	6	89	0.01	0.0	9.813	2.313	12	6	9	9
C OCR-131	134		A 006- 35-H	7.34Y	122.4	0.00	3.63	32.22	92	210	109	89	0.00	0.0	7.500	0.000	0	0	0	42 C
131	OCR-131		A 117-#6 A-C	7.20Y	120.0	2.40	6.03	32.22	23	210	109	89	3.15	1.5	9.821	2.321	133	69	31	42
4925	131		A 117-#6 A-C	7.20Y	120.0	0.02	6.05	4.38	3	28	15	88	0.00	0.0	10.020	0.200	28	15	4	4
OCR-153	131		A 049-100-63	7.20Y	120.0	0.00	6.03	7.10	7	45	24	88	0.00	0.0	9.821	0.000	0	0	0	7
153	OCR-153		A 117-#6 A-C	7.18Y	119.6	0.37	6.39	7.10	5	45	24	88	0.09	0.2	11.994	2.173	45	24	7	7
FUSE-764	136		B 083-30W FU	7.36Y	122.6	0.00	3.40	5.26	9	34	18	88	0.00	0.0	6.422	0.000	0	0	0	12
764	FUSE-764		B 106-#2 ACS	7.35Y	122.5	0.07	3.47	5.26	3	34	18	88	0.01	0.0	7.219	0.797	34	18	12	12
4023	139		A 118-#8 A-C	7.43Y	123.9	0.12	2.12	15.23	15	100	52	89	0.10	0.1	2.435	0.125	15	8	4	35
OCR-138	4023		A 006- 35-H	7.43Y	123.9	0.00	2.12	13.03	37	86	45	89	0.00	0.0	2.435	0.000	0	0	0	31
138	OCR-138		A 106-#2 ACS	7.40Y	123.3	0.61	2.73	13.03	7	86	45	89	0.25	0.3	5.124	2.688	86	45	31	31
4906	141		ABC 098-#3/0 A	7.47Y	124.5	0.05	1.46	16.96	6	337	176	89	0.11	0.0	1.488	0.188	22	11	4	80
OCR-4907	4906		ABC 010- 50-L	7.47Y	124.5	0.00	1.46	15.86	32	315	164	89	0.00	0.0	1.488	0.000	0	0	0	76
4907	OCR-4907		ABC 098-#3/0 A	7.46Y	124.4	0.15	1.61	15.86	5	315	164	89	0.28	0.1	2.135	0.647	87	45	15	76
4908	4907		ABC 098-#3/0 A	7.46Y	124.4	0.02	1.63	11.48	4	228	119	89	0.02	0.0	2.214	0.079	0	0	0	61
4909	4908		ABC 098-#3/0 A	7.46Y	124.4	0.01	1.64	11.48	4	228	119	89	0.02	0.0	2.272	0.058	5	3	1	61
4910	4909		ABC 098-#3/0 A	7.45Y	124.2	0.18	1.82	11.21	4	223	116	89	0.22	0.1	3.523	1.252	103	54	32	60
OCR-4915	4910		A 049-100-63	7.45Y	124.2	0.00	1.82	5.03	5	33	17	89	0.00	0.0	3.523	0.000	0	0	0	12
4915	OCR-4915		A 117-#6 A-C	7.44Y	124.0	0.17	1.99	5.03	4	33	17	89	0.03	0.1	4.974	1.451	33	17	12	12
4911	4910		ABC 098-#3/0 A	7.45Y	124.2	0.01	1.83	4.32	1	86	45	89	0.01	0.0	3.677	0.154	0	0	0	16
4912	4911		ABC 098-#3/0 A	7.45Y	124.2	0.02	1.85	4.32	1	86	45	89	0.01	0.0	4.020	0.342	47	24	3	16
4913	4912		ABC 098-#3/0 A	7.45Y	124.1	0.01	1.86	1.95	1	39	20	89	0.00	0.0	4.441	0.421	10	5	3	13
4914	4913		ABC 098-#3/0 A	7.45Y	124.1	0.01	1.87	1.42	0	28	15	88	0.00	0.0	4.718	0.277	0	0	0	10
OCR-4916	4914		C 049-100-63	7.45Y	124.1	0.00	1.87	4.26	4	28	15	88	0.00	0.0	4.718	0.000	0	0	0	10
4916	OCR-4916		C 118-#8 A-C	7.44Y	124.0	0.09	1.95	4.26	4	28	15	88	0.02	0.1	5.047	0.329	4	2	1	10
OCR-4917	4916		C 049-100-63	7.44Y	124.0	0.00	1.95	3.64	4	24	12	89	0.00	0.0	5.047	0.000	0	0	0	9
4917	OCR-4917		C 118-#8 A-C	7.43Y	123.9	0.19	2.15	3.64	4	24	12	89	0.03	0.1	6.633	1.587	24	12	9	9
OCR-763	141		C 04																	

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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
8201	8200	ABC	Node		7.56Y 126.0	0.00	0.00	21.46	0	431	226	89	0.00	0.0	0.000	0.000	0	0	0	102
533	8201	ABC	098-#3/0 A		7.51Y 125.2	0.79	0.79	21.46	7	431	226	89	1.94	0.4	2.607	2.607	142	74	28	102
147	533	ABC	102-#1/0 A		7.49Y 124.9	0.32	1.11	14.37	6	287	150	89	0.58	0.2	3.902	1.295	69	36	20	74
146	147	ABC	102-#1/0 A		7.49Y 124.9	0.02	1.14	2.83	1	56	29	89	0.01	0.0	4.763	0.861	56	29	13	13
997	147	ABC	102-#1/0 A		7.49Y 124.8	0.11	1.22	8.08	4	161	84	89	0.10	0.1	4.793	0.891	70	37	17	41
FUSE-145	997	C	083-30M FU		7.49Y 124.8	0.00	1.22	13.65	23	91	47	89	0.00	0.0	4.793	0.000	0	0	0	24
145	FUSE-145	C	117-#6 A-C		7.44Y 124.0	0.73	1.95	13.65	10	91	47	89	0.34	0.4	7.041	2.248	90	47	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	Loops&Metas	Losses	No Load Losses	Total		
KW	4579	0	0	0	0	0	47	0.00	4626	Lowest Voltage = 119.61 on Element 153	
KVAR	2576	0	0	0	0	0	48	2624	Max Accm VoltD = 6.39 on Element 153		
										Max Elen VoltD = 2.40 on Element 131	

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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
8110		ABC	SRC-8110-D	7.56Y	126.0	0.00	0.00	199.27	0	4114	1870	91	0.00	0.0	0.000	0.000	0	0	0	1317
Feeder NO. 3		Beginning with Node Element 8113																		
8113	8110	ABC	Node	7.56Y	126.0	0.00	0.00	60.31	0	1245	567	91	0.00	0.0	0.000	0.000	0	0	0	444
227	8113	ABC	116-4-ACWC	7.53Y	125.6	0.45	0.45	60.31	34	1245	567	91	4.11	0.3	0.288	0.288	92	53	20	444
OCR-226	227	B	007-50-H	7.53Y	125.6	0.00	0.45	23.18	46	159	71	91	0.00	0.0	0.288	0.000	0	0	0	73
226	OCR-226	B	106-#2 ACS	7.45Y	124.2	1.37	1.82	23.18	13	159	71	91	1.37	0.9	2.317	2.029	48	21	26	73
702	226	B	106-#2 ACS	7.41Y	123.4	0.75	2.57	16.16	9	110	49	91	0.46	0.4	4.231	1.914	65	29	28	47
225	702	B	106-#2 ACS	7.39Y	123.2	0.25	2.81	6.57	4	45	20	91	0.05	0.1	6.417	2.186	44	20	19	19
OCR-224	227	ABC	007-50-H	7.53Y	125.6	0.00	0.45	35.60	71	735	327	91	0.00	0.0	0.288	0.000	0	0	0	266
224	OCR-224	ABC	116-4-ACWC	7.40Y	123.3	2.28	2.73	35.60	20	735	327	91	11.67	1.6	3.009	2.721	175	77	68	266
4041	224	ABC	116-4-ACWC	7.37Y	122.9	0.37	3.09	27.02	15	548	243	91	1.51	0.3	3.538	0.529	44	19	11	198
OCR-223	4041	C	007-50-H	7.37Y	122.9	0.00	3.09	22.36	45	151	67	91	0.00	0.0	3.538	0.000	0	0	0	62
223	OCR-223	C	106-#2 ACS	7.32Y	122.1	0.85	3.95	22.36	12	151	67	91	0.69	0.5	5.310	1.772	112	49	51	62
FUSE-222	223	C	082-25N FU	7.32Y	122.1	0.00	3.95	1.97	4	13	6	91	0.00	0.0	5.310	0.000	0	0	0	6
222	FUSE-222	C	118-#8 A-C	7.32Y	122.0	0.10	4.05	1.97	2	13	6	91	0.01	0.0	6.815	1.505	13	6	6	6
4113	223	C	106-#2 ACS	7.32Y	122.0	0.03	3.97	3.76	2	25	11	92	0.00	0.0	5.713	0.403	25	11	5	5
221	4041	ABC	098-#3/0 A	7.37Y	122.8	0.15	3.24	17.40	6	352	156	91	0.33	0.1	4.074	0.536	23	10	4	125
FUSE-220	221	B	083-30N FU	7.37Y	122.8	0.00	3.24	2.13	4	14	6	92	0.00	0.0	4.074	0.000	0	0	0	4
220	FUSE-220	B	118-#8 A-C	7.36Y	122.6	0.13	3.37	2.13	2	14	6	92	0.01	0.1	5.890	1.816	14	6	4	4
219	221	ABC	116-4-ACWC	7.34Y	122.4	0.39	3.63	15.57	9	315	139	91	0.87	0.3	5.144	1.070	77	34	34	117
FUSE-218	219	A	082-25N FU	7.34Y	122.4	0.00	3.63	19.58	39	132	58	92	0.00	0.0	5.144	0.000	0	0	0	48
218	FUSE-218	A	118-#8 A-C	7.31Y	121.8	0.58	4.21	19.58	20	132	58	92	0.42	0.3	6.025	0.881	131	58	48	48
217	219	ABC	116-4-ACWC	7.34Y	122.3	0.08	3.71	5.22	3	105	46	92	0.04	0.0	6.234	1.091	105	46	35	35
C OCR-230	227	A	006-35-H	7.53Y	125.6	0.00	0.45	37.03	106	255	114	91	0.00	0.0	0.288	0.000	0	0	0	85
230	OCR-230	A	106-#2 ACS	7.47Y	124.5	1.05	1.49	37.03	21	255	114	91	1.75	0.7	1.188	0.899	43	19	13	85
229	230	A	106-#2 ACS	7.40Y	123.3	1.24	2.73	18.56	10	127	56	91	1.00	0.8	3.441	2.254	35	15	20	54
FUSE-239	229	A	081-20N FU	7.40Y	123.3	0.00	2.73	8.38	21	57	25	92	0.00	0.0	3.441	0.000	0	0	0	22
239	FUSE-239	A	106-#2 ACS	7.38Y	123.1	0.22	2.95	8.38	5	57	25	92	0.06	0.1	4.947	1.506	57	25	22	22
236	229	A	106-#2 ACS	7.39Y	123.2	0.11	2.84	5.04	3	34	15	91	0.02	0.1	4.709	1.267	34	15	12	12
FUSE-228	230	A	081-20N FU	7.47Y	124.5	0.00	1.49	12.14	30	83	37	91	0.00	0.0	1.188	0.000	0	0	0	18
228	FUSE-228	A	106-#2 ACS	7.45Y	124.2	0.29	1.78	12.14	7	83	37	91	0.13	0.2	2.183	0.995	51	23	11	18
710	228	A	106-#2 ACS	7.44Y	124.1	0.14	1.92	4.60	3	31	14	91	0.02	0.1	3.981	1.798	31	14	7	7
Feeder NO. 1		Beginning with Node Element 8111																		
8111	8110	ABC	Node	7.56Y	126.0	0.00	0.00	76.17	0	1573	714	91	0.00	0.0	0.000	0.000	0	0	0	412
242	8111	ABC	098-#3/0 A	7.50Y	124.9	1.06	1.06	76.17	25	1573	714	91	10.45	0.7	0.862	0.862	71	31	9	412
244	242	ABC	098-#3/0 A	7.41Y	123.5	1.42	2.48	62.41	21	1279	577	91	10.95	0.9	2.354	1.492	208	91	53	329
FUSE-241	244	A	082-25N FU	7.41Y	123.5	0.00	2.48	7.65	15	52	23	91	0.00	0.0	2.354	0.000	0	0	0	11
241	FUSE-241	A	117-#6 A-C	7.39Y	123.2	0.28	2.76	7.65	5	52	23	91	0.07	0.1	3.920	1.566	52	23	11	11
240	244	ABC	098-#3/0 A	7.38Y	123.0	0.48	2.96	49.70	17	1009	452	91	2.99	0.3	2.974	0.620	124	54	39	265
4905	240	ABC	098-#3/0 A	7.38Y	122.9	0.11	3.07	43.60	15	881	394	91	0.65	0.1	3.131	0.157	0	0	0	226
238	4905	ABC	098-#3/0 A	7.27Y	121.2	1.70	4.77	43.60	15	881	393	91	8.73	1.0	5.926	2.785	268	117	71	226
OCR-237	238	A	007-50-H	7.27Y	121.2	0.00	4.77	18.14	36	121	53	92	0.00	0.0	5.916	0.000	0	0	0	37
237	OCR-237	A	106-#2 ACS	7.22Y	120.4	0.84	5.61	18.14	10	121	53	92	0.60	0.5	7.801	1.885	67	29	18	37
FUSE-235	237	A	081-20N FU	7.22Y	120.4	0.00	5.61	8.00	20	53	23	92	0.00	0.0	7.801	0.000	0	0	0	19
235	FUSE-235	A	118-#8 A-C	7.17Y	119.5	0.89	6.50	8.00	8	53	23	92	0.26	0.5	11.091	3.291	53	23	19	19
234	238	ABC	098-#3/0 A	7.24Y	120.6	0.62	5.39	24.21	8	483	213	91	1.85	0.4	7.630	1.714	92	40	25	118
233	234	ABC	098-#3/0 A	7.21Y	120.2	0.42	5.81	18.90	6	376	165	92	0.86	0.2	9.487	1.857	202	88	42	91
OCR-232	233	C	006-35-H	7.21Y	120.2	0.00	5.81	15.35	44	101	45	91	0.00	0.0	9.487	0.000	0	0	0	32
232	OCR-232	C	106-#2 ACS	7.16Y	119.3	0.89	6.70	15.35	9	101	45	91	0.44	0.4	12.884	3.397	101	44	32	32
FUSE-713	233	C	081-20N FU	7.21Y	120.2	0.00	5.81	10.85	27	72	31	92	0.00	0.0	9.487	0.000	0	0	0	17
713	FUSE-713	C	117-#6 A-C	7.19Y	119.9	0.31	6.12	10.85	8	72	31	92	0.12	0.2	10.726	1.229	72	31	17	17
FUSE-482	234	C	082-25N FU	7.24Y	120.6	0.00	5.39	2.11	4	14	6	92	0.00	0.0	7.630	0.000	0	0	0	2
482	FUSE-482	C	117-#6 A-C	7.23Y	120.5	0.06	5.45	2.11	2	14	6	92	0.00	0.0	8.938	1.308	14	6	2	2
OCR-243	242	C	007-50-H	7.50Y	124.9	0.00	1.06	31.06	62	213	94	91	0.00	0.0	0.862	0.000	0	0	0	74
243	OCR-243	C	106-#2 ACS	7.38Y	123.0	1.96	3.03	31.06	17	213	94	91	2.44	1.1	3.311	2.449	105	46	31	74
712	243	C	106-#2 ACS	7.36Y	122.7	0.28	3.31	8.04	4	54	24	91	0.07	0.1	5.361	2.050	54	24	20	20
255	243	C	106-#2 ACS	7.37Y	122.8	0.21	3.24	7.62	4	52	23	91	0.05	0.1	4.910	1.598	51	23	23	23
Feeder NO. 2		Beginning with Node Element 8112																		
8112	8110	ABC	Node	7.56Y	126.0	0.00	0.00	62.78	0	1296	590	91	0.00	0.0	0.000	0.000	0	0	0	461
256	8112	ABC	098-#3/0 A	7.43Y	123.8	2.19	2.19	62.78	21	1296	590	91	17.08	1.3	2.322	2.322	190	143	31	461
253	256	ABC	098-#3/0 A																	

Balanced Voltage Drop Report
Source: 8110

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.WM\
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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
FUSE-406	247	B	082-25N FU	7.45Y	124.2	0.00	1.84	5.26	11	37	14	94	0.00	0.0	9.190	0.000	0	0	0	21
406	FUSE-406	B	106-#2 ACS	7.44Y	124.0	0.17	2.01	5.26	3	37	14	94	0.03	0.1	11.055	1.865	37	14	21	21
FUSE-742	249	C	082-25N FU	7.47Y	124.5	0.00	1.53	2.94	6	21	8	93	0.00	0.0	7.921	0.000	0	0	0	4
742	FUSE-742	C	110-#4 ACS	7.47Y	124.4	0.02	1.55	2.94	2	21	8	93	0.00	0.0	8.598	0.677	20	8	4	4
OCR-250	249	C	006- 35-H	7.47Y	124.5	0.00	1.53	11.61	33	81	31	93	0.00	0.0	7.921	0.000	0	0	0	32
250	OCR-250	C	106-#2 ACS	7.44Y	123.9	0.52	2.06	11.61	6	81	31	93	0.20	0.2	10.602	2.681	81	31	32	32
OCR-246	987	ABC	007- 50-H	7.52Y	125.3	0.00	0.71	10.26	21	216	82	93	0.00	0.0	5.760	0.000	0	0	0	67
246	OCR-246	ABC	098-#3/0 A	7.50Y	125.0	0.28	0.99	10.26	3	216	82	93	0.26	0.1	9.140	3.380	216	82	67	67
FUSE-723	256	C	081-20N FU	7.43Y	123.8	0.00	2.19	6.52	16	45	17	94	0.00	0.0	2.322	0.000	0	0	0	13
723	FUSE-723	C	118-#8 A-C	7.41Y	123.6	0.25	2.44	6.52	7	45	17	94	0.06	0.1	3.448	1.126	45	17	13	13
FUSE-722	256	A	081-20N FU	7.43Y	123.8	0.00	2.19	4.46	11	31	12	93	0.00	0.0	2.322	0.000	0	0	0	14
722	FUSE-722	A	106-#2 ACS	7.42Y	123.6	0.17	2.37	4.46	2	31	12	93	0.02	0.1	4.612	2.291	31	12	14	14

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	4011	0	0	0	0	0	103	0.00	4114	Lowest Voltage =	119.30	on Element 232
KVAR	1768	0	0	0	0	0	102		1870	Max Accm VoltD =	6.70	on Element 232
										Max Elem VoltD =	2.28	on Element 224

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DOE VALLEY SUMMER 2008

Detail

Balanced Voltage Drop Report
Source: 8130

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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
8130			ABC SRC-8130-D		7.56Y 126.0	0.00	0.00	307.25	0	6340	2892	91	0.00	0.0	0.000	0.000	0	0	0	1393
Feeder NO. 3		Beginning with Node Element 8133																		
8133	8130		ABC Mode		7.56Y 126.0	0.00	0.00	66.99	0	1367	662	90	0.00	0.0	0.000	0.000	0	0	0	383
621	8133		ABC 098-#3/0 A		7.43Y 123.9	2.09	2.09	66.99	22	1367	662	90	18.11	1.3	1.861	1.861	0	0	0	383
P 959	621		ABC 098-#3/0 A		7.43Y 123.9	0.00	2.09	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		7.40Y 123.3	0.59	2.68	66.99	22	1349	642	90	4.96	0.4	2.427	0.566	168	75	36	383
589	779		ABC 098-#3/0 A		7.38Y 122.9	0.40	3.08	26.01	9	529	232	92	0.91	0.2	4.287	1.860	528	231	149	149
789	779		ABC 098-#3/0 A		7.35Y 122.5	0.84	3.52	32.75	11	648	330	89	3.17	0.5	4.239	1.813	214	93	55	198
361	789		ABC 098-#3/0 A		7.34Y 122.3	0.20	3.73	22.21	7	431	233	88	0.39	0.1	5.320	1.080	430	233	143	143
Feeder NO. 4		Beginning with Node Element 8134																		
8134	8130		ABC Mode		7.56Y 126.0	0.00	0.00	45.08	0	934	416	91	0.00	0.0	0.000	0.000	0	0	0	219
475	8134		ABC 098-#3/0 A		7.49Y 124.9	1.13	1.13	45.08	15	934	416	91	5.86	0.6	1.860	1.860	344	150	79	219
593	475		ABC 110-#4 ACS		7.49Y 124.8	0.10	1.23	28.42	20	584	259	91	0.21	0.0	2.520	0.660	584	258	140	140
Feeder NO. 2		Beginning with Node Element 8132																		
8132	8130		ABC Mode		7.56Y 126.0	0.00	0.00	97.81	0	2024	907	91	0.00	0.0	0.000	0.000	0	0	0	431
476	8132		ABC 098-#3/0 A		7.42Y 123.7	2.32	2.32	97.81	33	2024	907	91	28.10	1.4	1.575	1.575	350	153	73	431
OCR-778	476		ABC 011-70-L		7.42Y 123.7	0.00	2.32	37.19	53	758	333	92	0.00	0.0	1.575	0.000	0	0	0	172
778	OCR-778		ABC 098-#3/0 A		7.38Y 123.1	0.60	2.92	37.19	12	758	333	92	2.59	0.3	2.752	1.178	260	114	62	172
OCR-759	778		A 049-100-63		7.38Y 123.1	0.00	2.92	35.75	36	242	106	92	0.00	0.0	2.752	0.000	0	0	0	54
759	OCR-759		A 098-#3/0 A		7.37Y 122.8	0.29	3.21	35.75	12	242	106	92	0.28	0.1	3.475	0.723	242	106	54	54
OCR-4079	778		B 049-100-63		7.38Y 123.1	0.00	2.92	3.46	3	23	10	92	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	2.96	3.46	3	23	10	92	0.00	0.0	3.076	0.324	23	10	4	4
OCR-4078	778		B 049-100-63		7.38Y 123.1	0.00	2.92	14.20	14	96	42	92	0.00	0.0	2.752	0.000	0	0	0	21
4078	OCR-4078		B 110-#4 ACS		7.38Y 123.0	0.06	2.98	14.20	10	96	42	92	0.02	0.0	3.197	0.444	96	42	21	21
OCR-4077	778		C 049-100-63		7.38Y 123.1	0.00	2.92	19.79	20	134	59	92	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	2.98	19.79	7	134	59	92	0.04	0.0	2.926	0.173	56	24	9	31
FUSE-776	4077		C 081-20N FU		7.38Y 123.0	0.00	2.98	11.57	29	78	34	92	0.00	0.0	2.926	0.000	0	0	0	22
776	FUSE-776		C 106-#2 ACS		7.37Y 122.8	0.19	3.17	11.57	6	78	34	92	0.07	0.1	3.862	0.937	78	34	22	22
OCR-775	476		B 049-100-63		7.42Y 123.7	0.00	2.32	12.23	12	83	36	92	0.00	0.0	1.575	0.000	0	0	0	23
775	OCR-775		B 118-#8 A-C		7.41Y 123.5	0.21	2.53	12.23	12	83	36	92	0.09	0.1	2.083	0.509	83	36	23	23
C FUSE-748	476		A 082-25N FU		7.42Y 123.7	0.00	2.32	42.02	84	286	125	92	0.00	0.0	1.575	0.000	0	0	0	64 C
748	FUSE-748		A 117-#6 A-C		7.37Y 122.9	0.76	3.08	42.02	30	286	125	92	1.27	0.4	2.174	0.600	203	89	49	64
756	748		A 118-#8 A-C		7.36Y 122.7	0.17	3.25	12.02	12	81	35	92	0.07	0.1	2.589	0.415	81	35	15	15
477	476		ABC 098-#3/0 A		7.39Y 123.2	0.47	2.79	25.50	9	520	228	92	1.23	0.2	3.268	1.694	350	153	70	99
P 777	477		ABC 098-#3/0 A		7.39Y 123.2	0.00	2.79	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	2.79	24.93	36	169	74	92	0.00	0.0	3.268	0.000	0	0	0	29
757	OCR-757		C 106-#2 ACS		7.37Y 122.8	0.40	3.19	24.93	14	169	74	92	0.32	0.2	4.205	0.937	168	74	29	29
Feeder NO. 1		Beginning with Node Element 8131																		
8131	8130		ABC Mode		7.56Y 126.0	0.00	0.00	97.39	0	2014	907	91	0.00	0.0	0.000	0.000	0	0	0	360
474	8131		ABC 098-#3/0 A		7.49Y 124.8	1.22	1.22	97.39	32	2014	907	91	14.93	0.7	0.813	0.813	268	117	42	360
C OCR-356	474		ABC 007-50-H		7.49Y 124.8	0.00	1.22	78.65	157	1613	721	91	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	1.77	2.99	78.65	26	1613	721	91	18.04	1.1	2.198	1.385	56	24	9	292
OCR-4140	356		ABC 011-70-L		7.38Y 123.0	0.00	2.99	38.81	55	786	346	92	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	3.26	38.81	13	786	346	92	1.35	0.2	2.635	0.437	52	23	5	121
4142	4140		ABC 098-#3/0 A		7.36Y 122.6	0.15	3.41	31.47	10	636	280	92	0.55	0.1	2.954	0.319	157	69	21	102
OCR-4145	4142		A 049-100-63		7.36Y 122.6	0.00	3.41	35.41	35	238	105	91	0.00	0.0	2.954	0.000	0	0	0	38
4145	OCR-4145		A 110-#4 ACS		7.35Y 122.5	0.13	3.53	35.41	25	238	105	91	0.15	0.1	3.147	0.193	13	6	2	38
4150	4145		A 110-#4 ACS		7.34Y 122.3	0.19	3.72	33.43	24	225	99	92	0.16	0.1	3.631	0.483	170	74	30	36
4152	4150		A 110-#4 ACS		7.34Y 122.3	0.02	3.74	8.13	6	55	24	92	0.00	0.0	3.905	0.274	55	24	6	6
OCR-4143	4142		C 049-100-63		7.36Y 122.6	0.00	3.41	35.72	36	240	106	91	0.00	0.0	2.954	0.000	0	0	0	43
4143	OCR-4143		C 106-#2 ACS		7.35Y 122.4	0.17	3.58	35.72	20	240	106	91	0.29	0.1	3.094	0.140	0	0	0	43
4146	4143		C 110-#4 ACS		7.33Y 122.1	0.34	3.91	35.72	26	240	106	91	0.37	0.2	3.675	0.581	66	29	18	43
OCR-4147	4146		C 049-100-63		7.33Y 122.1	0.00	3.91	25.92	26	174	76	92	0.00	0.0	3.675	0.000	0	0	0	25
4147	OCR-4147		C 110-#4 ACS		7.32Y 122.0	0.12	4.03	25.92	19	174	76	92	0.10	0.1	3.961	0.286	46	20	5	25
4148	4147		C 110-#4 ACS		7.31Y 121.9	0.09	4.13	19.03	14	128	56	92	0.05	0.0	4.333	0.372	78	34	13	20
4149	4148		C 110-#4 ACS		7.31Y 121.9	0.02	4.15	7.38	5	49	22	91	0.00	0.0	4.619	0.285	49	22	7	7
4141	4140		ABC 098-#3/0 A		7.36Y 122.7	0.01	3.27	4.76	2	96	42	92	0.01	0.0	3.011	0.376	96	42	14	14
4075	356		ABC 098-#3/0 A		7.37Y 122.9	0.10	3.09	32.04	11	650	285	92	0.41	0.1	2.386	0.188	18	8	3	140
OCR-754	4075		ABC 012-100-L		7.37Y 122.9	0.00	3.09	31.16	31	632	277	92	0.00	0.0	2.386	0.000	0	0	0	137
754	OCR-754		ABC 098-#3/0 A		7.36Y 122.7	0.25	3.33	31.16	10	632	277	92	0.71	0.1	3.253	0.867	562	245	123	137
OCR-4076	754		B 049-100-63		7.36Y 122.7	0.00	3.33	10.28												

Falls of Rough Summer 2008

Detail

Balanced Voltage Drop Report
Source: 8160

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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
8160	turtle	ABC	SRC-8160-D	7.56Y	126.0	0.00	0.00	268.42	0	5845	1701	96	0.00	0.0	0.000	0.000	0	0	0	1445
	8160	ABC	Capacitor	7.56Y	126.0	0.00	0.00	268.42	0	5845	1701	96	0.00	0.0	0.000	0.000	0	0	0	1445
	Feeder NO. 4	Beginning with Node Element Feeder 4																		
Feeder 4	turtle	ABC	Node	7.56Y	126.0	0.00	0.00	24.84	0	529	193	94	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	24.84	11	529	193	94	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	24.84	35	529	193	94	0.00	0.0	0.012	0.000	0	0	0	140
53	OCR-53	ABC	098-#3/0 A	7.51Y	125.1	0.86	0.87	24.84	8	529	193	94	2.75	0.5	2.394	2.382	93	27	32	140
4932	53	ABC	110-#4 ACS	7.51Y	125.1	0.00	0.87	7.46	5	148	80	88	0.00	0.0	2.450	0.056	97	65	4	8
4940	4932	ABC	090-336 AC	7.51Y	125.1	0.00	0.88	2.36	0	51	15	96	0.00	0.0	2.856	0.406	32	9	2	4
4942	4940	ABC	602-1/0AL	7.51Y	125.1	0.00	0.88	0.87	0	19	5	97	0.00	0.0	2.967	0.111	0	0	0	2
4943	4942	ABC	602-1/0AL	7.51Y	125.1	0.00	0.88	0.87	0	19	5	97	0.00	0.0	3.133	0.166	0	0	0	2
4946	4943	ABC	602-1/0AL	7.51Y	125.1	0.00	0.88	0.87	0	19	5	97	0.00	0.0	3.250	0.117	19	5	2	2
610	53	ABC	098-#3/0 A	7.50Y	125.0	0.10	0.97	13.19	4	285	83	96	0.18	0.1	2.882	0.488	10	4	4	100
OCR-609	610	B	049-100-63	7.50Y	125.0	0.00	0.97	3.25	3	23	7	96	0.00	0.0	2.882	0.000	0	0	0	9
609	OCR-609	B	118-#8 A-C	7.49Y	124.8	0.25	1.22	3.25	3	23	7	96	0.03	0.1	5.211	2.329	23	7	9	9
40	610	ABC	098-#3/0 A	7.48Y	124.7	0.37	1.33	11.65	4	252	73	96	0.57	0.2	5.098	2.216	37	11	10	87
44	40	ABC	098-#3/0 A	7.46Y	124.3	0.36	1.69	9.93	3	214	62	96	0.43	0.2	8.105	3.006	92	26	38	77
OCR-43	44	C	006- 35-H	7.46Y	124.3	0.00	1.69	14.91	43	107	31	96	0.00	0.0	8.105	0.000	0	0	0	30
43	OCR-43	C	106-#2 ACS	7.42Y	123.6	0.70	2.39	14.91	8	107	31	96	0.49	0.5	9.678	1.573	19	5	3	30
FUSE-42	43	C	081-20W FU	7.42Y	123.6	0.00	2.39	12.21	31	87	25	96	0.00	0.0	9.678	0.000	0	0	0	27
42	FUSE-42	C	110-#4 ACS	7.40Y	123.3	0.28	2.67	12.21	9	87	25	96	0.09	0.1	12.433	2.756	87	25	27	27
OCR-772	44	C	049-100-63	7.46Y	124.3	0.00	1.69	1.47	1	11	3	96	0.00	0.0	8.105	0.000	0	0	0	5
772	OCR-772	C	106-#2 ACS	7.45Y	124.2	0.07	1.76	1.47	1	11	3	96	0.00	0.0	11.016	2.911	11	3	5	5
OCR-45	44	B	049-100-63	7.46Y	124.3	0.00	1.69	0.58	1	4	1	97	0.00	0.0	8.105	0.000	0	0	0	4
45	OCR-45	B	106-#2 ACS	7.46Y	124.3	0.01	1.71	0.58	0	4	1	97	0.00	0.0	9.670	1.566	4	1	4	4
	Feeder NO. 3	Beginning with Node Element Feeder 3																		
Feeder 3	turtle	ABC	Node	7.56Y	126.0	0.00	0.00	133.50	0	2789	1179	92	0.00	0.0	0.000	0.000	0	0	0	1002
C 8163	Feeder 3	ABC	002-1/0 15	7.56Y	126.0	0.03	0.03	133.50	59	2789	1179	92	0.73	0.0	0.012	0.012	0	0	0	1002
4829	8163	ABC	090-336 AC	7.54Y	125.6	0.36	0.39	133.50	25	2788	1179	92	4.69	0.2	0.339	0.327	96	63	15	1002
OCR-834	4829	C	049-100-63	7.54Y	125.6	0.00	0.39	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	125.6	0.00	0.39	0.00	0	0	0	0	0.00	0.0	1.035	0.697	0	0	0	0
816	4829	ABC	098-#3/0 A	7.52Y	125.3	0.32	0.71	128.51	43	2687	1105	92	5.54	0.2	0.493	0.155	0	0	0	987
819	816	ABC	Capacitor	7.52Y	125.3	0.00	0.71	128.51	0	2682	1099	93	0.00	0.0	0.493	0.000	0	0	0	987
64	819	ABC	098-#3/0 A	7.35Y	122.5	2.82	3.54	140.45	47	2682	1686	85	48.64	1.8	1.676	1.182	122	79	115	987
C OCR-66	64	ABC	011- 70-L	7.35Y	122.5	0.00	3.54	133.92	191	2511	1552	85	0.00	0.0	1.676	0.000	0	0	0	872
66	OCR-66	ABC	098-#3/0 A	7.22Y	120.3	2.16	5.70	133.92	45	2511	1552	85	35.68	1.4	2.624	0.949	99	64	26	872
826	66	ABC	Capacitor	7.22Y	120.3	0.00	5.70	112.81	0	2091	1264	86	0.00	0.0	2.624	0.000	0	0	0	607
639	826	ABC	098-#3/0 A	7.14Y	119.0	1.31	7.01	114.46	38	2091	1331	84	18.48	0.9	3.288	0.664	50	32	15	607
OCR-638	639	B	060-35-4H	7.14Y	119.0	0.00	7.01	7.69	22	46	30	84	0.00	0.0	3.288	0.000	0	0	0	45
638	OCR-638	B	110-#4 ACS	7.13Y	118.9	0.10	7.11	7.69	5	46	30	84	0.02	0.0	4.552	1.263	46	30	45	45
4833	639	ABC	098-#3/0 A	7.12Y	118.7	0.27	7.27	106.56	36	1930	1219	85	3.53	0.2	3.432	0.143	0	0	0	529
4834	4833	ABC	Regulator	7.56Y	126.0	-7.27	0.00	106.56	49	1926	1215	85	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	100.42	33	1926	1215	85	4.66	0.2	3.648	0.217	41	27	8	529
68	4835	ABC	098-#3/0 A	7.45Y	124.1	1.49	1.87	98.25	33	1880	1183	85	17.75	0.9	4.561	0.912	160	103	71	521
FUSE-805	68	ABC	082-25W FU	7.45Y	124.1	0.00	1.87	17.63	35	282	275	72	0.00	0.0	4.561	0.000	0	0	0	13
P 805	FUSE-805	ABC	106-#2 ACS	7.44Y	123.9	0.18	2.05	17.63	10	282	275	72	0.34	0.1	5.342	0.781	282	274	13	13
OCR-559	68	A	049-100-63	7.45Y	124.1	0.00	1.87	47.90	48	301	192	84	0.00	0.0	4.561	0.000	0	0	0	88
559	OCR-559	A	118-#8 A-C	7.20Y	120.0	4.12	5.98	47.90	48	301	192	84	10.47	3.5	5.985	1.424	51	33	13	88
67	559	A	118-#8 A-C	7.20Y	120.0	0.05	6.03	3.18	3	19	12	85	0.01	0.0	6.460	0.475	19	12	3	3
825	559	A	118-#8 A-C	7.19Y	119.8	0.22	6.21	6.84	7	41	27	84	0.06	0.2	6.976	0.991	41	27	6	6
642	559	A	118-#8 A-C	7.17Y	119.4	0.57	6.55	16.48	16	100	64	84	0.35	0.4	7.024	1.039	99	64	38	38
560	559	A	110-#4 ACS	7.19Y	119.8	0.20	6.18	13.00	9	79	51	84	0.05	0.1	7.413	1.428	79	51	28	28
FUSE-74	68	ABC	085-50W FU	7.45Y	124.1	0.00	1.87	56.69	57	1119	594	88	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	2.51	56.69	19	1119	594	88	4.56	0.4	5.245	0.684	52	38	26	349
954	74	ABC	Capacitor	7.41Y	123.5	0.00	2.51	53.82	0	1062	551	89	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	3.19	57.06	19	1062	693	84	4.77	0.4	5.934	0.690	26	17	4	323
501	811	ABC	098-#3/0 A	7.33Y	122.2	0.59	3.78	36.48	12	675	441	84	2.64	0.4	6.883	0.948	29	19	3	165
71	501	ABC	100-#2/0 A	7.28Y	121.3	0.93	4.71	34.92	13	644	419	84	3.94	0.6	8.409	1.526	0	0	0	162
OCR-824	71	C	050-140-11	7.28Y	121.3	0.00	4.71	0.00	0	0	0	0	0.00	0.0	8.409	0.000	0	0	0	0
P 824	OCR-824	C	118-#8 A-C	7.28Y	121.3	0.00	4.71													

Balanced Voltage Drop Report
Source: 8160

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

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
640	OCR-640	C	118-#8 A-C	7.12Y	118.7	0.25	7.25	7.66	8	46	30	84	0.07	0.2	4.261	0.973	46	30	18	18	
4033	66	ABC	098-#3/0 A	7.22Y	120.3	0.01	5.71	15.74	5	286	185	84	0.03	0.0	2.678	0.054	0	0	0	239	
65	4033	ABC	098-#3/0 A	7.20Y	120.0	0.30	6.02	15.74	5	286	185	84	0.58	0.2	3.823	1.144	20	13	30	239	
828	65	ABC	102-#1/0 A	7.19Y	119.8	0.23	6.25	14.64	6	266	171	84	0.43	0.2	4.654	0.831	30	19	26	209	
827	828	C	117-#6 A-C	7.17Y	119.6	0.18	6.43	9.14	7	55	36	84	0.06	0.1	5.478	0.824	55	36	47	47	
OCR-571	828	B	007-50-H	7.19Y	119.8	0.00	6.25	14.59	29	88	57	84	0.00	0.0	4.654	0.000	0	0	0	58	
OCR-571	OCR-571	B	110-#4 ACS	7.18Y	119.6	0.14	6.39	14.59	10	88	57	84	0.04	0.0	5.582	0.928	88	57	58	58	
OCR-570	828	B	006-35-H	7.19Y	119.8	0.00	6.25	15.32	44	93	60	84	0.00	0.0	4.654	0.000	0	0	0	78	
570	OCR-570	B	117-#6 A-C	7.17Y	119.5	0.25	6.50	15.32	11	93	60	84	0.13	0.1	5.338	0.684	92	60	78	78	
----- Feeder NO. 2 Beginning with Node Element Feeder 2																					
Feeder 2	turtle	ABC	Node	7.56Y	126.0	0.00	0.00	48.95	0	1043	380	94	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	48.95	21	1043	380	94	0.10	0.0	0.012	0.012	0	0	0	160	
4831	8162	ABC	090-336 AC	7.55Y	125.9	0.13	0.14	48.95	9	1043	380	94	0.67	0.1	0.347	0.335	0	0	0	160	
4035	4831	ABC	098-#3/0 A	7.55Y	125.8	0.04	0.19	48.95	16	1042	378	94	0.28	0.0	0.401	0.054	0	0	0	160	
62	4035	ABC	098-#3/0 A	7.50Y	125.0	0.77	0.95	48.95	16	1042	378	94	4.83	0.5	1.476	1.075	175	63	26	160	
OCR-61	62	B	011-70-L	7.50Y	125.0	0.00	0.95	24.99	21	106	38	94	0.00	0.0	1.476	0.000	0	0	0	25	
61	OCR-61	B	118-#8 A-C	7.46Y	124.3	0.75	1.71	14.99	15	106	38	94	0.52	0.5	2.476	0.999	53	19	13	25	
558	61	B	118-#8 A-C	7.44Y	124.1	0.23	1.94	7.42	7	52	19	94	0.06	0.1	3.410	0.934	52	19	12	12	
1600	62	ABC	098-#3/0 A	7.49Y	124.9	0.17	1.13	35.71	12	756	272	94	0.84	0.1	1.780	0.304	0	0	0	109	
C OCR-1603	1600	A	006-35-H	7.49Y	124.9	0.00	1.13	38.42	110	271	97	94	0.00	0.0	1.780	0.000	0	0	0	37 C	
OCR-1603	OCR-1603	A	106-#2 ACS	7.49Y	124.8	0.11	1.23	38.42	21	271	97	94	0.20	0.1	1.864	0.084	0	0	0	37	
OCR-836	1603	A	051-140-63	7.49Y	124.8	0.00	1.23	14.63	10	103	37	94	0.00	0.0	1.864	0.000	0	0	0	9	
836	OCR-836	A	106-#2 ACS	7.48Y	124.7	0.05	1.28	14.63	8	103	37	94	0.03	0.0	1.971	0.108	23	8	1	9	
508	836	A	118-#8 A-C	7.46Y	124.3	0.40	1.68	11.32	11	80	29	94	0.17	0.2	3.022	1.050	80	28	8	8	
FUSE-56	1603	A	082-25N FU	7.49Y	124.8	0.00	1.23	23.79	48	168	60	94	0.00	0.0	1.864	0.000	0	0	0	28	
56	FUSE-56	A	118-#8 A-C	7.41Y	123.5	1.30	2.53	23.79	24	168	60	94	1.47	0.9	2.903	1.039	72	26	11	28	
OCR-54	56	A	047-70-63	7.41Y	123.5	0.00	2.53	13.47	19	94	34	94	0.00	0.0	2.903	0.000	0	0	0	17	
54	OCR-54	A	118-#8 A-C	7.30Y	121.7	1.78	4.31	13.47	13	94	34	94	1.00	1.1	6.005	3.102	68	24	10	17	
OCR-844	54	A	047-70-63	7.30Y	121.7	0.00	4.31	3.60	5	25	9	94	0.00	0.0	6.005	0.000	0	0	0	7	
844	OCR-844	A	118-#8 A-C	7.29Y	121.5	0.14	4.45	3.60	4	25	9	94	0.02	0.1	1.714	1.169	25	9	7	7	
1601	1600	ABC	098-#3/0 A	7.47Y	124.4	0.46	1.58	22.90	8	484	174	94	1.31	0.3	3.204	1.424	118	42	16	72	
1602	1601	ABC	098-#3/0 A	7.46Y	124.3	0.16	1.74	17.30	6	365	131	94	0.37	0.1	3.833	0.628	46	16	6	56	
OCR-846	1602	A	006-35-H	7.46Y	124.3	0.00	1.74	23.49	67	165	59	94	0.00	0.0	3.833	0.000	0	0	0	33	
846	OCR-846	A	118-#8 A-C	7.36Y	122.6	1.65	3.40	23.49	23	165	59	94	1.44	0.9	5.930	2.098	163	58	33	33	
OCR-59	1602	C	006-35-H	7.46Y	124.3	0.00	1.74	6.26	18	44	16	94	0.00	0.0	3.833	0.000	0	0	0	5	
59	OCR-59	C	118-#8 A-C	7.42Y	123.7	0.59	2.33	6.26	6	44	16	94	0.14	0.3	6.618	2.786	44	16	5	5	
OCR-55	1602	C	006-35-H	7.46Y	124.3	0.00	1.74	15.64	45	110	39	94	0.00	0.0	3.833	0.000	0	0	0	12	
55	OCR-55	C	118-#8 A-C	7.39Y	123.2	1.03	2.77	15.64	16	110	39	94	0.73	0.7	5.164	1.332	58	21	4	12	
845	55	C	118-#8 A-C	7.37Y	122.8	0.46	3.23	7.31	7	51	18	94	0.13	0.2	7.054	1.890	51	18	8	8	
----- Feeder NO. 1 Beginning with Node Element Feeder 1																					
Feeder 1	turtle	ABC	Node	7.56Y	126.0	0.00	0.00	69.68	0	1484	543	94	0.00	0.0	0.000	0.000	0	0	0	143	
8161	Feeder 1	ABC	002-1/0 15	7.56Y	126.0	0.02	0.02	69.68	31	1484	543	94	0.19	0.0	0.012	0.012	0	0	0	143	
4832	8161	ABC	090-336 AC	7.55Y	125.8	0.19	0.20	69.68	13	1484	543	94	1.35	0.1	0.344	0.332	0	0	0	143	
C OCR-63	4832	ABC	007-50-H	7.55Y	125.8	0.00	0.20	69.68	139	1483	540	94	0.00	0.0	0.344	0.000	0	0	0	143 C	
63	OCR-63	ABC	098-#3/0 A	7.44Y	124.0	1.78	1.98	69.68	23	1483	540	94	16.50	1.1	1.980	1.636	106	-20	40	143	
OCR-57	63	C	050-140-11	7.44Y	124.0	0.00	1.98	2.39	2	17	-3	-98	0.00	0.0	1.980	0.000	0	0	0	13	
57	OCR-57	C	117-#6 A-C	7.44Y	124.0	0.06	2.04	2.39	2	17	-3	-98	0.01	0.0	3.288	1.307	17	-3	13	13	
815	63	ABC	098-#3/0 A	7.39Y	123.1	0.87	2.85	64.90	22	1342	545	93	7.40	0.6	2.819	0.838	76	-8	30	90	
OCR-557	815	A	010-50-L	7.39Y	123.1	0.00	2.85	9.54	19	69	-13	-98	0.00	0.0	2.819	0.000	0	0	0	53	
557	OCR-557	A	110-#4 ACS	7.39Y	123.1	0.05	2.90	9.54	7	69	-13	-98	0.03	0.0	4.435	1.616	69	-13	53	53	
814	815	ABC	Regulator	7.56Y	126.0	-2.85	0.00	0.52	0	11	-2	-98	0.00	0.0	2.819	0.000	0	0	0	3	
91	814	ABC	098-#3/0 A	7.56Y	126.0	0.00	0.00	0.50	0	11	-2	-98	0.00	0.0	3.305	0.486	11	-2	3	3	
818	815	ABC	098-#3/0 A	7.38Y	122.9	0.23	3.08	57.69	19	1155	549	90	1.16	0.1	3.302	0.483	1154	547	2	2	
817	815	ABC	098-#3/0 A	7.39Y	123.1	0.00	2.85	1.17	0	24	11	91	0.00	0.0	3.199	0.380	24	11	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	Loops&Metas	Losses	No Load	Losses	Total		
KW	5618	0	0	0	0	0	227	0.00	5845	Lowest Voltage = 117.23 on Element 126		
KVAR	2846	0	-1391	0	0	0	246		1701	Max Accm VoltD = 8.77 on Element 126		
										Max Elem VoltD = 4.12 on Element 559		

LLD 07 128

FLAHERTY SUMMER 2008

Detail

Balanced Voltage Drop Report
Source: 8150

Database: C:\MISOFT\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	PF	kW Loss	% Loss	mi From Src	Length (mi)	Element KW KVAR	Cons On	Cons Thru	
8150			ABC SRC-8150-D	7.56Y	126.0	0.00	0.00	475.17	0	9945	4152	92	0.00	0.0	0.000	0.000	0	0	0	2254
----- Feeder NO. 3			Beginning with Node Element 8153																	
8153	8150		ABC Node	7.56Y	126.0	0.00	0.00	153.03	0	3289	1108	95	0.00	0.0	0.000	0.000	0	0	0	659
934	8153		ABC 090-336 AC	7.53Y	125.5	0.54	0.54	153.03	29	3289	1108	95	8.80	0.3	0.450	0.450	0	0	0	659
462	934		ABC 090-336 AC	7.50Y	124.9	0.53	1.07	153.03	29	3281	1087	95	8.76	0.3	0.899	0.448	0	0	0	659
C OCR-459	462		ABC 012-100-L	7.50Y	124.9	0.00	1.07	153.03	153	3272	1067	95	0.00	0.0	0.899	0.000	0	0	0	659
C 459	OCR-459		ABC 098-#3/0 A	7.28Y	121.3	3.68	4.75	153.03	51	3272	1067	95	76.27	2.3	2.510	1.611	259	98	65	659
OCR-458	459		A 007- 50-H	7.28Y	121.3	0.00	4.75	8.58	17	60	17	96	0.00	0.0	2.510	0.000	0	0	0	8
458	OCR-458		A 117-#6 A-C	7.27Y	121.1	0.13	4.88	8.58	6	60	17	96	0.04	0.1	3.173	0.663	60	17	8	8
C OCR-4918	459		ABC 012-100-L	7.28Y	121.3	0.00	4.75	86.98	87	1814	561	96	0.00	0.0	2.510	0.000	0	0	0	362
4918	OCR-4918		ABC 098-#3/0 A	7.26Y	121.0	0.23	4.97	86.98	29	1814	561	96	2.70	0.1	2.685	0.176	136	45	30	362
4919	4918		ABC Regulator	7.56Y	126.0	-4.97	0.00	80.42	37	1675	513	96	0.00	0.0	2.685	0.000	0	0	0	332
456	4919		ABC 098-#3/0 A	7.49Y	124.9	1.10	1.10	77.25	26	1675	513	96	11.33	0.7	3.680	0.995	251	71	65	332
947	456		ABC 098-#3/0 A	7.47Y	124.4	0.47	1.57	45.95	15	986	308	95	2.89	0.3	4.407	0.727	153	66	17	183
455	947		ABC 098-#3/0 A	7.42Y	123.6	0.84	2.41	31.65	11	681	196	96	3.51	0.5	6.311	1.903	127	36	36	140
999	455		ABC 106-#2 ACS	7.40Y	123.3	0.24	2.65	18.67	10	400	113	96	0.48	0.1	7.283	0.972	399	113	70	70
FUSE-957	455		A 082-25N FU	7.42Y	123.6	0.00	2.41	8.64	17	62	17	96	0.00	0.0	6.311	0.000	0	0	0	12
957	FUSE-957		A 106-#2 ACS	7.41Y	123.4	0.14	2.55	8.64	5	62	17	96	0.04	0.1	7.306	0.995	62	17	12	12
FUSE-955	455		C 082-25H FU	7.42Y	123.6	0.00	2.41	12.47	25	89	25	96	0.00	0.0	6.311	0.000	0	0	0	22
955	FUSE-955		C 117-#6 A-C	7.39Y	123.1	0.44	2.85	12.47	9	89	25	96	0.20	0.2	7.854	1.544	89	25	22	22
OCR-953	947		A 051-140-63	7.47Y	124.4	0.00	1.57	20.71	15	149	42	96	0.00	0.0	4.407	0.000	0	0	0	26
953	OCR-953		A 106-#2 ACS	7.45Y	124.2	0.19	1.77	20.71	12	149	42	96	0.13	0.1	4.972	0.564	149	42	26	26
457	456		ABC 106-#2 ACS	7.48Y	124.7	0.16	1.26	19.76	11	427	121	96	0.42	0.1	4.078	0.398	204	58	41	84
OCR-2457	457		B 050-140-11	7.48Y	124.7	0.00	1.26	11.44	8	82	23	96	0.00	0.0	4.078	0.000	0	0	0	14
2457	OCR-2457		B 106-#2 ACS	7.48Y	124.7	0.07	1.33	11.44	6	82	23	96	0.03	0.0	4.435	0.356	82	23	14	14
OCR-1457	457		C 050-140-11	7.48Y	124.7	0.00	1.26	19.53	14	141	40	96	0.00	0.0	4.078	0.000	0	0	0	29
1457	OCR-1457		C 106-#2 ACS	7.48Y	124.6	0.12	1.38	19.53	11	141	40	96	0.08	0.1	4.455	0.376	141	40	29	29
FUSE-950	459		C 085-50N FU	7.28Y	121.3	0.00	4.75	12.82	13	90	25	96	0.00	0.0	2.510	0.000	0	0	0	27
950	FUSE-950		C 106-#2 ACS	7.26Y	121.1	0.18	4.92	12.82	7	90	25	96	0.08	0.1	3.357	0.848	90	25	27	27
944	459		ABC 098-#3/0 A	7.25Y	120.9	0.39	5.13	38.11	13	799	230	96	2.04	0.3	3.196	0.686	55	16	7	154
4958	944		ABC 098-#3/0 A	7.24Y	120.6	0.24	5.38	23.80	8	498	142	96	0.82	0.2	3.864	0.668	0	0	0	83
OCR-952	4958		A 049-100-63	7.24Y	120.6	0.00	5.38	7.53	8	52	15	96	0.00	0.0	3.864	0.000	0	0	0	7
952	OCR-952		A 106-#2 ACS	7.23Y	120.5	0.14	5.51	7.53	4	52	15	96	0.03	0.1	4.981	1.117	52	15	7	7
OCR-951	4958		C 049-100-63	7.24Y	120.6	0.00	5.38	20.68	21	144	41	96	0.00	0.0	3.864	0.000	0	0	0	27
951	OCR-951		C 106-#2 ACS	7.23Y	120.4	0.19	5.56	20.68	11	144	41	96	0.13	0.1	4.413	0.549	144	41	27	27
OCR-948	4958		C 049-100-63	7.24Y	120.6	0.00	5.38	7.33	7	51	14	96	0.00	0.0	3.864	0.000	0	0	0	10
948	OCR-948		C 106-#2 ACS	7.23Y	120.5	0.12	5.50	7.33	4	51	14	96	0.03	0.1	4.904	1.041	51	14	10	10
OCR-946	4958		C 007- 50-H	7.24Y	120.6	0.00	5.38	35.86	72	250	71	96	0.00	0.0	3.864	0.000	0	0	0	39
946	OCR-946		C 106-#2 ACS	7.22Y	120.3	0.29	5.67	35.86	20	250	71	96	0.45	0.2	4.185	0.321	110	31	14	39
949	946		C 106-#2 ACS	7.20Y	120.0	0.30	5.97	20.00	11	139	39	96	0.20	0.1	5.096	0.911	139	39	25	25
OCR-945	944		B 007- 50-H	7.25Y	120.9	0.00	5.13	35.04	70	244	70	96	0.00	0.0	3.196	0.000	0	0	0	64
945	OCR-945		B 110-#4 ACS	7.22Y	120.4	0.50	5.64	35.04	25	244	70	96	0.46	0.2	4.951	1.755	244	69	64	64
FUSE-943	459		A 085-50N FU	7.28Y	121.3	0.00	4.75	24.84	25	174	49	96	0.00	0.0	2.510	0.000	0	0	0	43
943	FUSE-943		A 106-#2 ACS	7.26Y	121.0	0.24	4.99	24.84	14	174	49	96	0.20	0.1	3.114	0.605	174	49	43	43
----- Feeder NO. 4			Beginning with Node Element 8154																	
8154	8150		ABC Node	7.56Y	126.0	0.00	0.00	82.42	0	1774	591	95	0.00	0.0	0.000	0.000	0	0	0	341
920	8154		ABC 090-336 AC	7.54Y	125.7	0.29	0.29	82.42	16	1774	591	95	2.55	0.1	0.450	0.450	0	0	0	341
C OCR-933	920		ABC 012-100-L	7.54Y	125.7	0.00	0.29	82.42	82	1771	585	95	0.00	0.0	0.450	0.000	0	0	0	341
933	OCR-933		ABC 090-336 AC	7.53Y	125.4	0.27	0.56	82.42	16	1771	585	95	2.30	0.1	0.906	0.456	242	76	43	341
622	933		ABC 098-#3/0 A	7.47Y	124.4	1.02	1.58	71.20	24	1527	503	95	9.74	0.6	1.860	0.954	134	42	28	298
461	622		ABC 098-#3/0 A	7.39Y	123.1	1.33	2.90	63.69	21	1356	442	95	11.44	0.8	3.245	1.385	101	32	29	259
OCR-936	461		ABC 050-140-11	7.39Y	123.1	0.00	2.90	16.71	12	353	111	95	0.00	0.0	3.245	0.000	0	0	0	64
936	OCR-936		ABC 106-#2 ACS	7.38Y	123.0	0.13	3.03	16.71	9	353	111	95	0.29	0.1	3.594	0.349	138	44	22	64
OCR-1937	936		A 051-140-63	7.38Y	123.0	0.00	3.03	10.24	7	72	23	95	0.00	0.0	3.594	0.000	0	0	0	13
1937	OCR-1937		A 106-#2 ACS	7.37Y	122.9	0.07	3.10	10.24	6	72	23	95	0.02	0.0	4.006	0.412	72	23	13	13
OCR-1936	936		C 051-140-63	7.38Y	123.0	0.00	3.03	20.25	14	142	45	95	0.00	0.0	3.594	0.000	0	0	0	29
1936	OCR-1936		C 106-#2 ACS	7.36Y	122.7	0.28	3.31	20.25	11	142	45	95	0.19	0.1	4.433	0.840	142	45	29	29
623	461		ABC 098-#3/0 A	7.35Y	122.5	0.64	3.55	38.64	13	815	262	95	3.33	0.4	4.380	1.135	95	30	21	151
616	623		ABC 098-#3/0 A	7.33Y	122.2	0.22	3.77	34.13	11	717	228	95	0.99	0.1	4.829	0.450	112	35	21	130

Balanced Voltage Drop Report
Source: 8150

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

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
P 453	452	ABC	098-#3/0 A	7.36Y	122.7	0.02	3.34	44.05	15	769	-596	-79	1.75	0.2	5.035	0.417	6	8	1	208 P
P 4947	453	ABC	098-#3/0 A	7.36Y	122.7	0.00	3.34	44.08	15	761	-606	-78	0.30	0.0	5.105	0.070	0	0	0	207 P
P 4948	4947	ABC	Capacitor	7.36Y	122.7	0.00	3.34	44.08	0	761	-607	-78	0.00	0.0	5.105	0.000	0	0	0	207 P
C OCR-450	4948	ABC	011- 70-L	7.36Y	122.7	0.00	3.34	59.89	86	761	1081	58	0.00	0.0	5.105	0.000	0	0	0	207 C
P 450	OCR-450	ABC	098-#3/0 A	7.35Y	122.6	0.09	3.44	59.89	20	761	1081	58	0.66	0.1	5.191	0.086	8	12	6	207 P
P 932	450	ABC	098-#3/0 A	7.23Y	120.5	2.11	5.55	59.23	20	752	1069	56	14.33	1.9	7.326	2.135	113	153	30	201 P
P 448	932	ABC	098-#3/0 A	7.20Y	120.0	0.50	6.04	50.51	17	625	900	57	2.85	0.5	7.930	0.604	115	167	24	171 P
P 724	448	ABC	098-#3/0 A	7.15Y	119.2	0.75	6.79	32.85	11	405	582	57	2.31	0.6	9.822	1.891	265	383	67	111 P
P 4032	724	A	118-#8 A-C	7.13Y	118.8	0.40	7.19	33.57	34	138	197	57	0.84	0.6	10.045	0.223	17	25	2	44 P
C OCR-245	4032	A	005- 25-H	7.13Y	118.8	0.00	7.19	29.40	118	120	172	57	0.00	0.0	10.045	0.000	0	0	0	42 C
L 245	OCR-245	A	118-#8 A-C	7.05Y	117.5	1.27	8.46	29.40	29	120	172	57	1.64	1.4	11.573	1.528	118	171	42	42 L
C OCR-449	448	B	005- 25-H	7.20Y	120.0	0.00	6.04	24.88	100	102	147	57	0.00	0.0	7.930	0.000	0	0	0	36 C
P 449	OCR-449	B	106-#2 ACS	7.13Y	118.9	1.09	7.13	24.88	14	102	147	57	0.86	0.8	10.471	2.541	101	146	36	36 P
FUSE-930	927	A	082-25W FU	7.38Y	123.0	0.00	3.02	11.20	22	47	68	57	0.00	0.0	3.027	0.000	0	0	0	14
P 930	FUSE-930	A	110-#4 ACS	7.37Y	122.9	0.11	3.14	11.20	8	47	68	57	0.02	0.0	3.852	0.826	47	68	14	14 P
OCR-929	927	C	006- 35-H	7.38Y	123.0	0.00	3.02	18.34	52	77	111	57	0.00	0.0	3.027	0.000	0	0	0	27
P 929	OCR-929	C	118-#8 A-C	7.29Y	121.6	1.40	4.42	18.34	18	77	111	57	1.13	1.5	5.723	2.696	76	111	27	27 P
Feeder #0. I Beginning with Node Element 8151																				
8151	8150	ABC	Node	7.56Y	126.0	0.00	0.00	123.96	0	2652	932	94	0.00	0.0	0.000	0.000	0	0	0	624
913	8151	ABC	003-1000MC	7.56Y	126.0	0.00	0.00	123.96	22	2652	932	94	0.00	0.0	0.010	0.010	0	0	0	624
912	913	ABC	074-795 AC	7.54Y	125.6	0.37	0.38	123.96	14	2652	932	94	2.99	0.1	0.734	0.724	449	425	18	624
464	912	ABC	074-795 AC	7.49Y	124.9	0.75	1.13	99.70	11	2200	491	98	6.46	0.3	2.695	1.961	146	35	56	606
910	464	ABC	074-795 AC	7.49Y	124.9	0.02	1.14	24.13	3	526	131	97	0.03	0.0	2.861	0.165	0	0	0	180
OCR-914	910	ABC	012-100-L	7.49Y	124.9	0.00	1.14	24.13	24	526	131	97	0.00	0.0	2.861	0.000	0	0	0	180
914	OCR-914	ABC	098-#3/0 A	7.48Y	124.6	0.22	1.37	24.13	8	526	131	97	0.76	0.1	3.501	0.641	36	9	11	180
454	914	ABC	098-#3/0 A	7.43Y	123.8	0.85	2.22	22.50	7	490	122	97	2.52	0.5	6.425	2.923	132	32	45	169
OCR-440	454	ABC	011- 70-L	7.43Y	123.8	0.00	2.22	15.31	22	331	81	97	0.00	0.0	6.425	0.000	0	0	0	118
440	OCR-440	ABC	106-#2 ACS	7.39Y	123.2	0.59	2.81	15.31	9	331	81	97	1.42	0.4	7.973	1.548	31	8	8	118
OCR-438	440	C	061-50-4H	7.39Y	123.2	0.00	2.81	30.09	60	216	53	97	0.00	0.0	7.973	0.000	0	0	0	68
438	OCR-438	C	106-#2 ACS	7.31Y	121.9	1.34	4.15	30.09	17	216	53	97	1.89	0.9	9.569	1.596	55	13	24	68
923	438	C	106-#2 ACS	7.29Y	121.5	0.34	4.49	15.00	8	107	26	97	0.25	0.2	10.324	0.755	15	4	2	23
OCR-437	923	C	051-140-63	7.29Y	121.5	0.00	4.49	5.30	4	38	9	97	0.00	0.0	10.324	0.000	0	0	0	8
437	OCR-437	C	117-#6 A-C	7.28Y	121.3	0.19	4.68	5.30	4	38	9	97	0.04	0.1	11.930	1.606	38	9	8	8
OCR-924	923	C	051-140-63	7.29Y	121.5	0.00	4.49	7.63	5	54	13	97	0.00	0.0	10.324	0.000	0	0	0	13
924	OCR-924	C	106-#2 ACS	7.28Y	121.3	0.17	4.66	7.63	4	54	13	97	0.06	0.1	11.089	0.764	10	2	3	13
925	924	C	117-#6 A-C	7.28Y	121.3	0.05	4.70	6.28	4	44	11	97	0.01	0.0	11.408	0.319	44	11	10	10
439	438	C	117-#6 A-C	7.30Y	121.7	0.18	4.33	7.37	5	52	13	97	0.05	0.1	10.659	1.090	52	13	21	21
OCR-537	440	A	061-50-4H	7.39Y	123.2	0.00	2.81	11.47	23	82	20	97	0.00	0.0	7.973	0.000	0	0	0	42
537	OCR-537	A	106-#2 ACS	7.37Y	122.9	0.34	3.14	11.47	6	82	20	97	0.13	0.2	9.804	1.830	82	20	42	42
OCR-919	454	C	049-100-63	7.43Y	123.8	0.00	2.22	3.28	3	24	6	97	0.00	0.0	6.425	0.000	0	0	0	6
919	OCR-919	C	118-#8 A-C	7.42Y	123.7	0.08	2.29	3.28	3	24	6	97	0.01	0.0	7.123	0.698	24	6	6	6
906	464	ABC	090-336 AC	7.45Y	124.2	0.72	1.85	68.92	13	1521	292	98	6.14	0.4	4.413	1.718	177	42	52	370
OCR-467	906	ABC	012-100-L	7.45Y	124.2	0.00	1.85	60.81	61	1338	235	98	0.00	0.0	4.413	0.000	0	0	0	318
467	OCR-467	ABC	098-#3/0 A	7.35Y	122.5	1.65	3.50	60.81	20	1338	235	98	14.51	1.1	6.531	2.118	235	56	82	318
FUSE-466	467	A	082-25W FU	7.35Y	122.5	0.00	3.50	17.19	34	123	30	97	0.00	0.0	6.531	0.000	0	0	0	31
466	FUSE-466	A	118-#8 A-C	7.30Y	121.7	0.82	4.32	17.19	17	123	30	97	0.53	0.4	7.964	1.433	122	29	31	31
4040	467	ABC	098-#3/0 A	7.34Y	122.4	0.14	3.64	41.68	14	911	120	99	0.89	0.1	6.785	0.254	80	19	12	186
P 4039	4040	ABC	090-336 AC	7.34Y	122.4	0.00	3.64	0.00	0	0	0	0	0.00	0.0	6.803	0.018	0	0	0	0 P
986	4040	ABC	098-#3/0 A	7.34Y	122.3	0.02	3.66	30.77	10	675	60	100	0.12	0.0	6.842	0.057	0	0	0	145
468	986	ABC	098-#3/0 A	7.32Y	122.0	0.32	3.98	30.77	10	675	60	100	1.48	0.2	7.775	0.932	179	59	50	145
1200	468	ABC	Capacitor	7.32Y	122.0	0.00	3.98	8.29	0	164	-80	-90	0.00	0.0	7.775	0.000	0	0	0	25
OCR-879	1200	ABC	007- 50-H	7.32Y	122.0	0.00	3.98	8.19	16	164	75	91	0.00	0.0	7.775	0.000	0	0	0	25
879	OCR-879	ABC	098-#3/0 A	7.32Y	122.0	0.05	4.03	8.19	3	164	75	91	0.04	0.0	8.503	0.729	164	75	25	25
1884	468	ABC	106-#2 ACS	7.32Y	122.0	0.03	4.01	10.41	6	222	53	97	0.05	0.0	7.954	0.179	127	30	20	38
OCR-884	1884	B	050-140-II	7.32Y	122.0	0.00	4.01	13.44	10	96	23	97	0.00	0.0	7.954	0.000	0	0	0	18
884	OCR-884	B	106-#2 ACS	7.31Y	121.9	0.13	4.14	13.44	7	96	23	97	0.06	0.1	8.561	0.607	96	23	18	18
OCR-885	468	B	049-100-63	7.32Y	122.0	0.00	3.98	15.29	15	109	26	97	0.00	0.0	7.775	0.000	0	0	0	32
885	OCR-885	B	110-#4 ACS	7.32Y	122.0	0.07	4.05	15.29	11	109	26	97	0.03	0.0	8.341	0.566	109	26	32	32
905	4040	ABC	098-#3/0 A	7.34Y	122.3	0.02	3.66	7.29	2	156										

FORSVILLE SUMMER 2008

Detail

Balanced Voltage Drop Report
Source: 8100

Database: C:\MILSOFT\DATA\NEW SUMMER DATA\SUMMER MODEL 2005.MM
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-				mi From Src	Length (mi)	Element							
							Accum Drop	Thru Amps	% Cap	Thru KW			KVAR	% PF	kW Loss	% Loss	Cons On	Cons Thru		
8100		ABC	SRC-8100-D	7.56Y	126.0	0.00	0.00	292.70	0	6300	2094	95	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
----- Feeder NO. 4 Beginning with Node Element 8104																				
8104	8100	ABC	Node	7.56Y	126.0	0.00	0.00	111.17	0	2178	1270	86	0.00	0.0	0.000	0.000	0	0	0	264
492	8104	ABC	098-#3/0 A	7.35Y	122.6	3.42	3.42	111.17	37	2178	1270	86	47.43	2.2	1.814	1.814	64	37	2	264
491	492	ABC	098-#3/0 A	7.31Y	121.9	0.69	4.11	107.87	36	2067	1180	87	6.72	0.3	2.501	0.687	1461	1432	11	262
OCR-15	491	ABC	012-100-L	7.31Y	121.9	0.00	4.11	29.80	30	599	-261	-92	0.00	0.0	2.501	0.000	0	0	0	251
15	OCR-15	ABC	110-#4 ACS	7.31Y	121.9	0.02	4.14	29.80	21	599	-261	-92	0.78	0.1	3.252	0.751	20	1	9	251
4015	15	ABC	106-#2 ACS	7.30Y	121.7	0.14	4.28	28.98	16	578	-264	-91	1.13	0.2	3.582	0.330	29	2	13	242
9	4015	ABC	098-#3/0 A	7.29Y	121.6	0.00	4.44	27.84	9	549	-267	-90	2.29	0.4	5.240	1.658	138	9	48	229
1009	9	ABC	Capacitor	7.29Y	121.6	0.00	4.44	22.57	0	408	-278	-83	0.00	0.0	5.240	0.000	0	0	0	181
1010	1009	ABC	106-#2 ACS	7.28Y	121.4	0.21	4.65	18.71	10	408	30	100	0.68	0.2	5.718	0.478	20	1	7	181
OCR-8	1010	C	006-35-H	7.28Y	121.4	0.00	4.65	9.88	28	72	5	100	0.00	0.0	5.718	0.000	0	0	0	26
8	OCR-8	C	106-#2 ACS	7.27Y	121.1	0.21	4.86	9.88	5	72	5	100	0.08	0.1	7.165	1.447	72	5	26	26
7	1010	ABC	106-#2 ACS	7.25Y	120.8	0.04	5.16	14.49	8	316	24	100	1.06	0.3	7.660	1.942	161	13	80	148
4026	7	A	106-#2 ACS	7.25Y	120.8	0.04	5.20	10.55	6	76	5	100	0.02	0.0	7.799	0.139	6	0	4	34
851	4026	A	Regulator	7.56Y	126.0	-5.20	0.00	9.74	3	70	4	100	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	9.34	27	70	4	100	0.00	0.0	7.799	0.000	0	0	0	30
1	OCR-1	A	106-#2 ACS	7.54Y	125.7	0.27	0.27	9.34	5	70	4	100	0.10	0.1	9.812	2.017	70	4	30	30
4017	7	ABC	106-#2 ACS	7.25Y	120.8	0.03	5.19	3.55	2	77	5	100	0.02	0.0	8.021	0.362	15	1	6	34
OCR-4	4017	ABC	007-50-H	7.25Y	120.8	0.00	5.19	2.86	6	62	4	100	0.00	0.0	8.021	0.000	0	0	0	28
4	OCR-4	ABC	106-#2 ACS	7.25Y	120.8	0.03	5.22	2.86	2	62	0	100	0.01	0.0	8.944	0.923	60	4	22	28
3	4	ABC	110-#4 ACS	7.25Y	120.8	0.00	5.22	0.09	0	2	0	100	0.00	0.0	10.148	1.204	2	0	6	6
P 4016	4015	ABC	098-#3/0 A	7.30Y	121.7	0.00	4.28	0.00	0	0	0	0	0.00	0.0	3.650	0.068	0	0	0	0
----- Feeder NO. 3 Beginning with Node Element 8103																				
8103	8100	ABC	Node	7.56Y	126.0	0.00	0.00	28.65	0	648	51	100	0.00	0.0	0.000	0.000	0	0	0	253
52	8103	ABC	116-4-ACWC	7.45Y	124.2	1.78	1.78	28.65	16	648	51	100	8.55	1.3	2.686	2.686	58	4	23	253
FUSE-51	52	C	082-25N FU	7.45Y	124.2	0.00	1.78	6.63	13	49	3	100	0.00	0.0	2.686	0.000	0	0	0	20
51	FUSE-51	C	118-#8 A-C	7.42Y	123.7	0.50	2.28	6.63	7	49	3	100	0.13	0.3	5.040	2.354	49	3	20	20
50	51	ABC	116-4-ACWC	7.37Y	122.9	1.34	3.12	22.78	13	508	38	100	4.95	1.0	5.374	2.688	96	6	38	200
REG3	50	ABC	Regulator	7.56Y	126.0	-3.12	0.00	18.47	12	407	29	100	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	13.24	19	300	22	100	0.00	0.0	5.374	0.000	0	0	0	116
47	OCR-47	ABC	116-4-ACWC	7.54Y	125.6	0.35	0.35	13.24	7	300	22	100	0.78	0.3	6.552	1.177	36	2	11	116
C OCR-34	47	A	006-35-H	7.54Y	125.6	0.00	0.35	27.47	78	207	16	100	0.00	0.0	6.552	0.000	0	0	0	89
34	OCR-34	A	106-#2 ACS	7.41Y	123.5	2.16	2.52	27.47	15	207	16	100	2.95	1.4	9.895	3.344	76	5	40	89
36	34	A	106-#2 ACS	7.38Y	123.1	0.41	2.93	13.63	8	101	7	100	0.28	0.3	11.215	1.319	40	3	14	36
OCR-33	36	A	049-100-63	7.38Y	123.1	0.00	2.93	7.39	7	54	4	100	0.00	0.0	11.215	0.000	0	0	0	21
33	OCR-33	A	118-#8 A-C	7.34Y	122.3	0.73	3.66	7.39	7	54	4	100	0.00	0.0	14.756	1.381	24	2	8	8
32	33	A	117-#6 A-C	7.33Y	122.2	0.10	3.76	3.29	2	24	2	100	0.01	0.1	14.756	1.381	24	2	8	8
1137	36	A	106-#2 ACS	7.38Y	123.1	0.00	2.93	0.80	0	6	0	100	0.00	0.0	11.408	0.193	6	0	0	13
OCR-35	34	A	049-100-63	7.41Y	123.5	0.00	2.52	3.59	4	27	2	100	0.00	0.0	9.895	0.000	0	0	0	13
35	OCR-35	A	118-#8 A-C	7.39Y	123.2	0.25	2.76	3.59	4	27	2	100	0.03	0.1	12.051	2.155	27	2	13	13
4024	47	A	117-#6 A-C	7.53Y	125.5	0.14	0.49	7.54	5	57	4	100	0.00	0.0	7.025	0.473	11	1	2	16
OCR-46	4024	A	006-35-H	7.53Y	125.5	0.00	0.49	6.12	17	46	3	100	0.00	0.0	7.025	0.000	0	0	0	14
46	OCR-46	A	117-#6 A-C	7.51Y	125.2	0.32	0.81	6.12	4	46	3	100	0.07	0.2	9.463	2.438	46	3	14	14
49	REG3	ABC	117-#6 A-C	7.56Y	125.9	0.08	0.08	4.77	3	108	7	100	0.06	0.1	5.829	0.455	12	1	4	46
OCR-769	49	B	006-35-H	7.56Y	125.9	0.00	0.08	12.74	36	96	7	100	0.00	0.0	5.829	0.000	0	0	0	42
769	OCR-769	B	117-#6 A-C	7.49Y	124.8	1.10	1.17	12.74	9	96	7	100	0.74	0.8	8.152	3.323	24	2	11	42
48	769	B	117-#6 A-C	7.45Y	124.1	0.69	1.87	9.52	7	71	5	100	0.26	0.4	11.602	3.450	71	4	31	31
P 1152	52	ABC	116-4-ACWC	7.45Y	124.2	0.00	1.78	0.00	0	0	0	0	0.00	0.0	2.686	0.000	0	0	0	10
FUSE-768	52	A	083-30N FU	7.45Y	124.2	0.00	1.78	3.28	5	24	2	100	0.00	0.0	2.686	0.000	0	0	0	10
768	FUSE-768	A	117-#6 A-C	7.45Y	124.1	0.11	1.89	3.28	2	24	2	100	0.01	0.1	4.259	1.573	24	2	10	10
----- Feeder NO. 2 Beginning with Node Element 8102																				
8102	8100	ABC	Node	7.56Y	126.0	0.00	0.00	27.52	0	622	48	100	0.00	0.0	0.000	0.000	0	0	0	238
39	8102	ABC	090-336 AC	7.56Y	125.9	0.05	0.05	27.52	5	622	48	100	0.21	0.0	0.348	0.348	27	2	4	238
38	39	ABC	116-4-ACWC	7.46Y	124.4	1.56	1.61	26.32	15	595	46	100	6.72	1.1	2.995	2.648	91	6	36	234
OCR-37	38	A	007-50-H	7.46Y	124.4	0.00	1.61	1.75	4	13	1	100	0.00	0.0	2.995	0.000	0	0	0	8
37	OCR-37	A	106-#2 ACS	7.46Y	124.3	0.05	1.66	1.75	1	13	1	100	0.00	0.0	5.037	2.041	13	1	8	8
544	38	ABC	106-#2 ACS	7.35Y	122.5	1.87	3.48	21.68	12	484	35	100	6.52	1.3	6.965	3.970	105	7	24	190
FUSE-543	544	A	083-30N FU	7.35Y	122.5	0.00	3.48	4.11	7	30	2	100	0.00	0.0	6.965	0.000	0	0	0	13
543	FUSE-543	A	106-#2 ACS	7.35Y	122.4	0.09	3.57	4.11	2	30	2	100	0.01	0.0	8.557	1.592	30	2	13	13
31	544	ABC	106-#2 ACS	7.34Y																