

## **Supplementary Report on Voltage Study Accuracy**

### **Introduction**

Milsoft WindMil™ is a software product commonly used by utilities to provide a variety of engineering analysis tools to investigate electric system performance represented by distribution models. A common use of WindMil is to estimate voltage levels throughout a distribution system model by performing voltage drop calculations for a given load. Clark Energy has investigated the accuracy of primary distribution modeling used in planning studies by comparing WindMil voltage calculations with actual voltage measurements obtained from member premises. The comparison of actual to calculated voltage levels was prepared for system loads occurring in January 2002 and June 2002.

### **WindMil™ Voltage Analysis Results**

A sample of twelve distribution feeders were selected to compare calculated WindMil voltage level results with field measurements. Distribution feeders selected for the voltage comparison were modeled in WindMil for January 2002 and June 2002 loads and a load flow analysis ran to calculate primary line section voltage levels. Results of the WindMil load flow analysis prepared for the voltage comparison are provided on pages 4-31 of this report. Line sections where field voltage measurements were obtained to compare with calculated WindMil results are highlighted in yellow.

### **Link™ Voltage Measurements**

Field data used within the sample comparison is based on actual voltage data reported by NRTC Link™ devices installed at some members' premises. The Link device is located within a meter collar housing that is installed between the utility's meter and the member's meter base. Although the Link has many features, Clark Energy employs Link devices primarily for power quality monitoring including service interruption and "blinks" reporting and voltage level monitoring. Link devices communicate with a PC-based master station at Clark Energy via through a telephone line interface that can be used for reporting and programming when the member's phone is not in use. Voltage levels reported by the Link devices are on a 240-Volt base, i.e. "line-to-line" voltage for a typical single-phase, three-wire service. Dividing the reported Link values by two yields the equivalent 120-Volt base value, i.e. the same "line-to-neutral" base that is reported within WindMil calculated results. Voltage data from Link devices installed at a dozen member locations across the distribution system were compared with calculated WindMil results for January 2002 and June 2002 loads. A copy of Link data reported from member premises used within this comparison is attached at the end of this report.

### **Voltage Comparison Results**

Voltage levels estimated using WindMil distribution models compare favorably with minimum voltages reported by Links installed at member premises within this sample. Voltages reported by Links vary about three percent or less from primary voltages calculated at line sections where the Links are located. A summary of the voltage comparison is provided on pages 2-3 for January 2002 and June 2002 loads. WindMil is used to model a balanced primary system for planning studies. Small errors are attributed to assumed balanced analysis, noncoincident loading and voltage drop through transformers and services. So, we conclude Clark Energy's WindMil distribution models are reasonably accurate for planning studies.

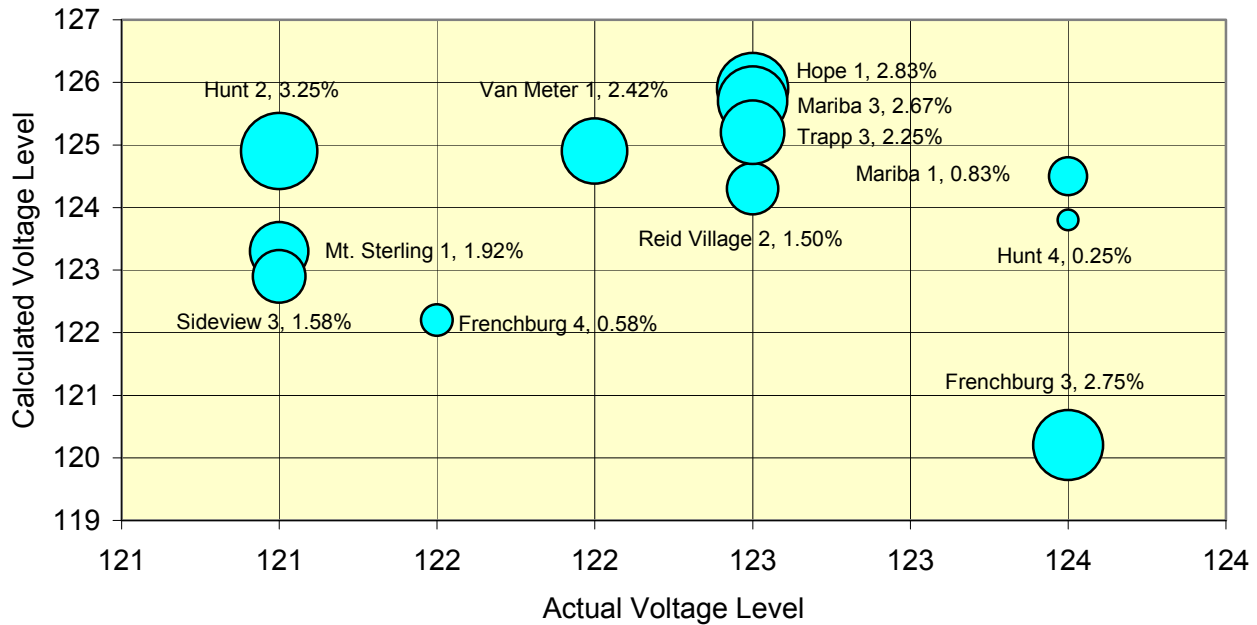
## Comparison of Actual & Calculated Voltage Levels - January 2002 Loads

Base Voltage: 120 Volts

Feeder	Line Section	Map Number	Member Name	Actual Voltage	Calculated Voltage	Volts Error	Percent Error
Frenchburg 3	10661	03-32-11	Billy McGuire	123.5	120.2	3.3	2.75%
Frenchburg 4	11348	04-14-67	LeeRay Adams	121.5	122.2	0.7	0.58%
Hope 1	7102	44-65-06	Tommy Stull	122.5	125.9	3.4	2.83%
Hunt 2	320	06-83-19	Michael Williams	121.0	124.9	3.9	3.25%
Hunt 4	52	05-62-02	Jerry Miller	123.5	123.8	0.3	0.25%
Mariba 1	11062	03-45-16	Eugene McCoy	123.5	124.5	1.0	0.83%
Mariba 3	1121	03-76-06	Thomas Yocum	122.5	125.7	3.2	2.67%
Mt. Sterling 1	46431	43-84-104	Linda Patton	121.0	123.3	2.3	1.92%
Reid Village 2	4573	58-09-10	Mike Hall	122.5	124.3	1.8	1.50%
Sideview 3	176	48-26-12	Mary Ritchie	121.0	122.9	1.9	1.58%
Trapp 3	3502	12-16-02	Al Reed	122.5	125.2	2.7	2.25%
Van Meter 1	27000	47-55-15	Steve Durkin	122.0	124.9	2.9	2.42%

Calculated voltages are primary values on a 120 Volt base and do not account for voltage drop through distribution transformers and services. Actual voltage levels are recorded at the member's meter base. Percent error between actual voltage and calculated voltage levels is represented by the circle area in the bubble chart below, i.e. small to larger errors are represented by progressively larger bubbles.

### Percent Error Between Actual & Calculated Voltage Levels



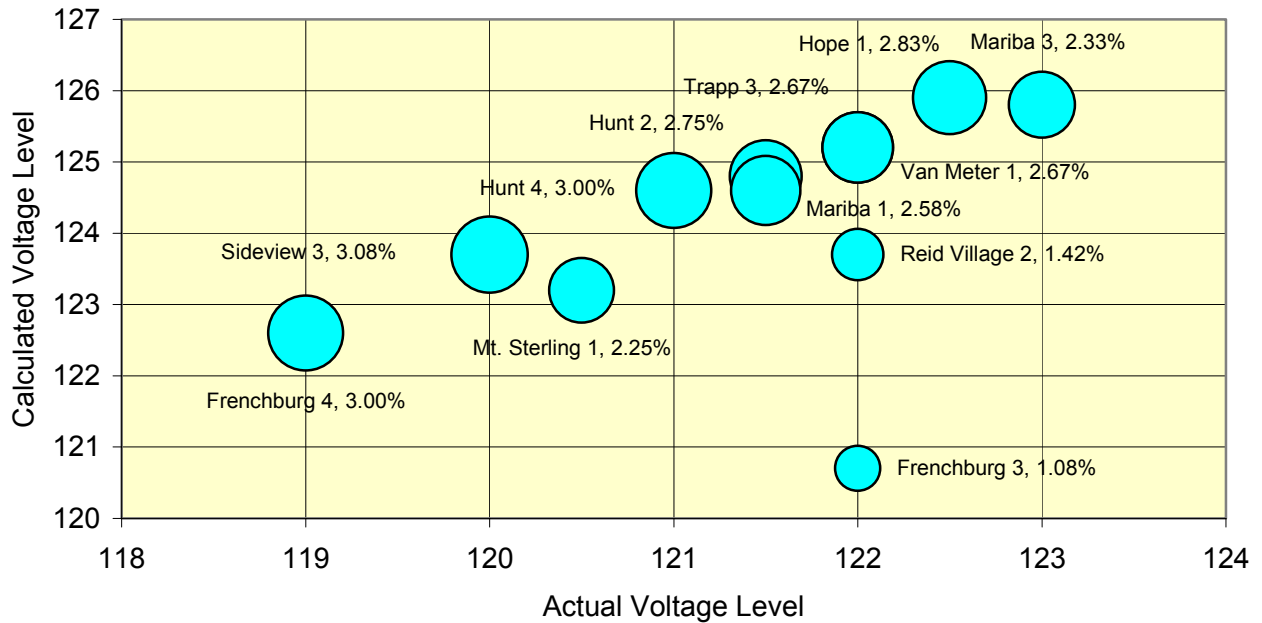
## Comparison of Actual & Calculated Voltage Levels - June 2002 Loads

Base Voltage: 120 Volts

Feeder	Line Section	Map Number	Member Name	Actual Voltage	Calculated Voltage	Volts Error	Percent Error
Frenchburg 3	10661	03-32-11	Billy McGuire	122.0	120.7	1.3	1.08%
Frenchburg 4	11348	04-14-67	LeeRay Adams	119.0	122.6	3.6	3.00%
Hope 1	7102	44-65-06	Tommy Stull	122.5	125.9	3.4	2.83%
Hunt 2	320	06-83-19	Michael Williams	121.5	124.8	3.3	2.75%
Hunt 4	52	05-62-02	Jerry Miller	121.0	124.6	3.6	3.00%
Mariba 1	11062	03-45-16	Eugene McCoy	121.5	124.6	3.1	2.58%
Mariba 3	1121	03-76-06	Thomas Yocum	123.0	125.8	2.8	2.33%
Mt. Sterling 1	46431	43-84-104	Linda Patton	120.5	123.2	2.7	2.25%
Reid Village 2	4573	58-09-10	Mike Hall	122.0	123.7	1.7	1.42%
Sideview 3	176	48-26-12	Mary Ritchie	120.0	123.7	3.7	3.08%
Trapp 3	3502	12-16-02	Al Reed	122.0	125.2	3.2	2.67%
Van Meter 1	27000	47-55-15	Steve Durkin	122.0	125.2	3.2	2.67%

Calculated voltages are primary values on a 120 Volt base and do not account for voltage drop through distribution transformers and services. Actual voltage levels are recorded at the member's meter base. Percent error between actual voltage and calculated voltage levels is represented by the circle area in the bubble chart below, i.e. small to larger errors are represented by progressively larger bubbles.

### Percent Error Between Actual & Calculated Voltage Levels



Balanced Voltage Drop Report  
Source: FRENCHBURG

Detail

Database: D:\MILSOFT\WINTER 2007-2008 LRP MODEL\INITIAL MODEL - ACTUAL JANUARY 2002 LOADS.WM\

Title:

Case:

01/22/2003 13:15

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-Element-		Cons On	Cons Thru
----- Feeder NO. 3 Beginning with Node Element FB3 -----																				
<b>FB3</b>	<b>FRENCHBURG</b>	ABC	Node	7.56Y	126.0	0.00	0.00	118.06	0	2641	440	99	0.00	0.0	0.000	0.000	0	0	0	510
1073S	FB3	ABC	U	7.56Y	126.0	0.00	0.00	118.06	0	2641	440	99	0.00	0.0	0.000	0.000	0	0	0	510
1073	1073S	ABC	1/0CU	7.51Y	125.1	0.89	0.89	118.06	26	2641	440	99	15.82	0.6	0.628	0.628	57	12	30	510
10732C	1073	ABC	Capacitor	7.51Y	125.1	-0.00	0.89	114.01	0	2536	402	99	0.00	0.0	0.628	0.000	0	0	0	470
10732	10732C	ABC	1/0CU	7.43Y	123.9	1.24	2.13	117.15	26	2536	728	96	19.68	0.8	1.471	0.843	232	69	107	470
1071	10732	ABC	2ACSR	7.34Y	122.3	1.61	3.74	106.33	40	2284	636	96	26.30	1.2	2.034	0.563	352	132	77	363
C 10711S	1071	ABC	70V4E	7.34Y	122.3	-0.00	3.74	89.42	128	1906	489	97	0.00	0.0	2.034	0.000	0	0	0	286
10711	10711S	ABC	2ACSR	7.31Y	121.9	0.38	4.11	89.42	34	1906	489	97	5.40	0.3	2.183	0.149	94	66	1	286
1070S	10711	C	U	7.31Y	121.9	-0.00	4.11	6.60	0	47	10	98	0.00	0.0	2.183	0.000	0	0	0	24
1070	1070S	C	4ACSR	7.30Y	121.7	0.19	4.30	6.60	3	47	10	98	0.05	0.1	3.358	1.175	47	10	24	24
P 1067C	10711	ABC	Capacitor	7.31Y	121.9	-0.00	4.11	-7.05	0	0	-155	0	0.00	0.0	2.183	0.000	0	0	0	0
1067	10711	ABC	2ACSR	7.22Y	120.4	1.52	5.63	84.25	32	1760	565	95	19.08	1.1	2.871	0.688	376	152	80	261
1113	1067	ABC	6ACWC	7.11Y	118.5	1.86	7.49	56.30	28	1165	361	96	12.91	1.1	4.170	1.298	939	311	18	81
C 748S	1113	A	35L	7.11Y	118.5	-0.00	7.49	30.73	88	214	46	98	0.00	0.0	4.170	0.000	0	0	0	63
L 748	748S	A	4ACSR	6.96Y	116.0	2.56	10.05	30.73	15	214	46	98	3.97	1.9	6.111	1.942	53	11	12	63
L 74801	748	A	4ACSR	6.92Y	115.3	0.60	10.65	18.42	9	125	27	98	0.60	0.5	6.799	0.688	7	1	4	42
L 749	74801	A	6ACWC	6.86Y	114.4	0.98	11.63	17.42	9	118	25	98	0.87	0.7	8.073	1.273	22	5	6	38
L 74901	749	A	6ACWC	6.85Y	114.2	0.13	11.76	5.39	3	36	8	98	0.03	0.1	9.095	1.022	36	7	12	12
L 74900	749	A	6ACWC	6.85Y	114.1	0.28	11.91	8.79	4	59	12	98	0.09	0.2	9.409	1.336	59	12	20	20
L 74800	748	A	4ACSR	6.94Y	115.7	0.26	10.31	4.61	2	31	7	98	0.04	0.1	8.423	2.312	31	6	9	9
<b>10661</b>	<b>1067</b>	<b>ABC</b>	<b>2ACSR</b>	<b>7.21Y</b>	<b>120.2</b>	0.13	5.76	9.39	4	199	41	98	0.18	0.1	3.385	0.514	36	7	27	100
10663	10661	ABC	2ACSR	7.21Y	120.1	0.11	5.87	5.47	2	116	24	98	0.09	0.1	4.194	0.809	32	7	20	54
1066	10663	ABC	2ACSR	7.21Y	120.1	0.03	5.90	3.95	1	84	17	98	0.02	0.0	4.580	0.386	35	7	12	34
10669S	1066	ABC	35L	7.21Y	120.1	-0.00	5.90	2.29	7	48	10	98	0.00	0.0	4.580	0.000	0	0	0	22
10669	10669S	ABC	2ACSR	7.20Y	120.1	0.03	5.93	2.29	1	48	10	98	0.01	0.0	5.141	0.561	7	2	5	22
733	10669	ABC	2ACSR	7.20Y	120.0	0.03	5.97	1.94	1	41	9	98	0.01	0.0	5.895	0.754	16	3	6	17
73300	733	ABC	2ACSR	7.20Y	120.0	0.02	5.99	1.18	0	25	5	98	0.00	0.0	6.996	1.101	25	5	11	11
10662	10661	C	2ACSR	7.21Y	120.1	0.11	5.87	6.65	3	47	10	98	0.03	0.1	4.380	0.995	47	10	19	19
10731	1073	C	1/0CU	7.50Y	125.1	0.04	0.92	4.50	1	33	7	98	0.01	0.0	1.550	0.923	33	7	10	10
----- Feeder NO. 4 Beginning with Node Element FB4 -----																				
<b>FB4</b>	<b>FRENCHBURG</b>	ABC	Node	7.56Y	126.0	0.00	0.00	131.75	0	2927	599	98	0.00	0.0	0.000	0.000	0	0	0	1558
FB4 AUTO	FB4	ABC	Transforme	15.03Y	125.2	0.78	0.78	131.75	57	2927	599	98	6.45	0.2	0.000	0.000	0	0	0	1558
1080	FB4 AUTO	ABC	336ACSR	15.02Y	125.2	0.03	0.81	65.88	9	2921	535	98	0.52	0.0	0.131	0.131	0	0	0	1558
1075	1080	ABC	336ACSR	14.99Y	124.9	0.24	1.05	65.88	9	2921	534	98	4.10	0.1	1.179	1.048	28	6	15	1558
10752	1075	ABC	336ACSR	14.99Y	124.9	0.05	1.11	65.05	9	2880	517	98	0.94	0.0	1.423	0.245	0	0	1	1533
10754	10752	ABC	336ACSR	14.97Y	124.7	0.16	1.26	64.37	8	2849	509	98	2.63	0.1	2.128	0.705	22	5	14	1521
1076S	10754	C	25V4E	14.97Y	124.7	-0.00	1.26	2.93	12	43	9	98	0.00	0.0	2.128	0.000	0	0	0	21
1076	1076S	C	4ACSR	14.95Y	124.6	0.12	1.38	2.93	1	43	9	98	0.04	0.1	3.842	1.714	2	0	4	21
10762	1076	C	4ACSR	14.95Y	124.6	0.01	1.40	1.09	1	16	3	98	0.00	0.0	4.954	1.112	16	3	5	5
10761	1076	C	6ACWC	14.95Y	124.6	0.02	1.40	1.70	1	25	5	98	0.00	0.0	4.905	1.063	25	5	12	12
1077	10754	ABC	1/0ACSR	14.90Y	124.1	0.61	1.87	62.90	18	2782	490	98	12.19	0.4	3.125	0.998	15	3	7	1486
10771	1077	ABC	1/0ACSR	14.86Y	123.8	0.29	2.16	62.56	18	2755	477	99	5.81	0.2	3.606	0.480	14	3	6	1479
10772S	10771	ABC	VWVE	14.86Y	123.8	-0.00	2.16	62.25	0	2735	469	99	0.00	0.0	3.606	0.000	0	0	0	1473
10772	10772S	ABC	1/0ACSR	14.82Y	123.5	0.37	2.53	62.25	18	2735	469	99	7.44	0.3	4.225	0.619	1	0	1	1473
1062S	10772	B	25V4E	14.82Y	123.5	-0.00	2.53	6.15	25	89	18	98	0.00	0.0	4.225	0.000	0	0	0	30
1062	1062S	B	4ACSR	14.80Y	123.3	0.14	2.67	6.15	3	89	18	98	0.08	0.1	5.429	1.205	40	8	12	30
10621	1062	B	4ACSR	14.79Y	123.3	0.06	2.73	3.39	2	49	10	98	0.01	0.0	6.852	1.422	49	10	18	18
1063R	10772	ABC	Regulator	15.12Y	126.0	-2.53	0.00	60.17	60	2637	444	99	0.00	0.0	4.225	0.000	0	0	0	1442
1063	1063R	ABC	2ACSR	14.99Y	124.9	1.08	1.08	58.96	22	2637	444	99	21.24	0.8	5.514	1.289	7	1	2	1442
10631S	1063	A	25L	14.99Y	124.9	-0.00	1.08	2.86	11	42	9	98	0.00	0.0	5.514	0.000	0	0	0	26
10631	10631S	A	2ACSR	14.99Y	124.9	0.02	1.10	2.86	1	42	9	98	0.00	0.0	6.424	0.911	42	9	26	26

Balanced Voltage Drop Report  
Source: FRENCHBURG

Database: D:\MILSOFT\WINTER 2007-2008 LRP MODEL\INITIAL MODEL - ACTUAL JANUARY 2002 LOADS.WM\

Title:

Case:

01/22/2003 13:15

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
10632	1063	ABC	2ACSR	14.93Y	124.4	0.51	1.59	57.86	22	2568	423	99	9.87	0.4	6.134	0.621	0	0	0	1414
10641	10632	A	4ACSR	14.91Y	124.2	0.17	1.76	15.15	7	221	46	98	0.27	0.1	6.611	0.477	19	4	6	169
1064	10641	A	4ACSR	14.88Y	124.0	0.26	2.01	13.85	7	202	42	98	0.39	0.2	7.387	0.776	6	1	8	163
1055	1064	A	4ACSR	14.84Y	123.7	0.28	2.29	13.44	7	196	41	98	0.37	0.2	8.375	0.988	58	12	35	155
10552	1055	A	4ACSR	14.83Y	123.6	0.09	2.38	8.52	4	124	26	98	0.08	0.1	8.835	0.460	16	3	21	103
1056S	10552	A	U	14.83Y	123.6	0.00	2.38	7.43	0	108	22	98	0.00	0.0	8.835	0.000	0	0	0	82
1056	1056S	A	4ACSR	14.80Y	123.3	0.28	2.66	7.43	4	108	22	98	0.22	0.2	10.432	1.597	9	2	7	82
1051S	1056	A	25L	14.80Y	123.3	-0.00	2.66	4.73	19	68	14	98	0.00	0.0	10.432	0.000	0	0	0	52
1051	1051S	A	4ACSR	14.79Y	123.2	0.10	2.76	4.73	2	68	14	98	0.05	0.1	11.420	0.988	16	3	20	52
10512	1051	A	4ACSR	14.79Y	123.2	0.02	2.78	2.58	1	37	8	98	0.00	0.0	12.098	0.678	37	8	20	20
10511	1051	A	4ACSR	14.79Y	123.2	0.01	2.77	1.04	1	15	3	98	0.00	0.0	12.220	0.801	15	3	12	12
1050S	1056	A	25L	14.80Y	123.3	-0.00	2.66	2.09	8	30	6	98	0.00	0.0	10.432	0.000	0	0	0	23
1050	1050S	A	4ACSR	14.80Y	123.3	0.05	2.71	2.09	1	30	6	98	0.01	0.0	11.483	1.051	9	2	17	23
P 10502	1050	A	4ACSR	14.80Y	123.3	-0.00	2.71	0.00	0	0	0	0	0.00	0.0	12.085	0.602	0	0	0	P
105021S	10502	A	U	14.80Y	123.3	-0.00	2.71	0.00	0	0	0	0	0.00	0.0	12.085	0.000	0	0	0	0
P 105021	105021S	A	4ACSR	14.80Y	123.3	-0.00	2.71	0.00	0	0	0	0	0.00	0.0	12.623	0.538	0	0	0	P
P 10503	105021	A	4ACSR	14.80Y	123.3	-0.00	2.71	0.00	0	0	0	0	0.00	0.0	13.884	1.261	0	0	0	P
P 10504	10503	A	4ACSR	14.80Y	123.3	-0.00	2.71	0.00	0	0	0	0	0.00	0.0	15.473	1.589	0	0	0	P
10501	1050	A	4ACSR	14.79Y	123.3	0.02	2.73	1.45	1	21	4	98	0.00	0.0	12.754	1.270	21	4	6	6
10551	1055	A	4ACSR	14.84Y	123.7	0.00	2.30	0.91	0	13	3	97	0.00	0.0	8.756	0.381	13	3	17	17
1065	10632	ABC	1/0ACSR	14.92Y	124.3	0.11	1.69	52.82	15	2336	371	99	1.82	0.1	6.345	0.211	7	1	3	1245
10652	1065	ABC	1/0ACSR	14.83Y	123.6	0.73	2.43	52.51	15	2321	367	99	12.36	0.5	7.814	1.468	40	16	14	1236
10653	10652	ABC	4/0ACSR	14.82Y	123.5	0.09	2.51	51.56	11	2269	340	99	1.39	0.1	8.117	0.304	0	0	0	1222
1133	10653	ABC	2ACSR	14.78Y	123.1	0.35	2.87	51.56	19	2267	338	99	6.12	0.3	8.607	0.489	24	5	5	1222
11331	1133	ABC	2ACSR	14.75Y	122.9	0.21	3.07	51.01	19	2237	330	99	3.50	0.2	8.895	0.288	44	9	6	1217
11331C	11331	ABC	Capacitor	14.75Y	122.9	-0.00	3.07	49.57	0	2171	315	99	0.00	0.0	8.895	0.000	0	0	0	1207
11333	11331C	ABC	2ACSR	14.71Y	122.6	0.33	3.40	50.20	19	2171	473	98	5.38	0.2	9.347	0.452	17	4	10	1207
11341	11333	ABC	2ACSR	14.70Y	122.5	0.09	3.49	49.81	19	2148	466	98	1.44	0.1	9.470	0.122	0	0	0	1197
1135S	11341	ABC	50V4E	14.70Y	122.5	-0.00	3.49	26.76	54	1154	246	98	0.00	0.0	9.470	0.000	0	0	0	564
1135	1135S	ABC	336ACSR	14.70Y	122.5	0.02	3.51	26.76	4	1154	246	98	0.14	0.0	9.700	0.230	52	11	12	564
11359	1135	ABC	336ACSR	14.69Y	122.4	0.08	3.59	25.56	3	1102	235	98	0.50	0.0	10.567	0.867	28	6	18	552
11357	11359	ABC	336ACSR	14.69Y	122.4	0.01	3.60	24.44	3	1053	224	98	0.08	0.0	10.707	0.140	10	2	6	527
11352S	11357	A	U	14.69Y	122.4	-0.00	3.60	8.31	0	120	25	98	0.00	0.0	10.707	0.000	0	0	0	70
11352	11352S	A	4ACSR	14.68Y	122.3	0.09	3.69	8.31	4	120	25	98	0.06	0.0	11.613	0.906	120	25	70	70
11358	11357	ABC	336ACSR	14.69Y	122.4	0.02	3.62	21.43	3	924	197	98	0.08	0.0	10.907	0.200	11	2	7	451
11353S	11358	B	25V4E	14.69Y	122.4	0.00	3.62	0.00	0	0	0	0	0.00	0.0	10.907	0.000	0	0	0	0
11354	11358	C	4ACSR	14.58Y	121.5	0.85	4.46	58.63	29	842	180	98	5.35	0.6	11.516	0.609	54	11	17	394
11355S	11354	C	25L	14.58Y	121.5	-0.00	4.46	7.02	28	100	21	98	0.00	0.0	11.516	0.000	0	0	0	81
11355	11355S	C	4ACSR	14.58Y	121.5	0.06	4.53	7.02	3	100	21	98	0.03	0.0	12.263	0.747	100	21	81	81
11356	11354	C	4ACSR	14.45Y	120.4	1.15	5.62	47.85	24	683	145	98	5.94	0.9	12.529	1.013	42	9	22	296
1137S	11356	C	U	14.45Y	120.4	-0.00	5.62	5.11	0	72	15	98	0.00	0.0	12.529	0.000	0	0	0	53
1137	1137S	C	4ACSR	14.44Y	120.3	0.06	5.68	5.11	3	72	15	98	0.03	0.0	13.177	0.648	32	7	16	53
11372	1137	C	4ACSR	14.44Y	120.3	0.02	5.70	1.90	1	27	6	98	0.00	0.0	13.657	0.480	15	3	10	30
11374	11372	C	4ACSR	14.44Y	120.3	0.00	5.70	0.47	0	7	1	99	0.00	0.0	14.209	0.552	7	1	6	6
11373	11372	C	4ACSR	14.44Y	120.3	0.00	5.70	0.39	0	6	1	99	0.00	0.0	14.251	0.594	6	1	14	14
11371	1137	C	4ACSR	14.44Y	120.3	0.01	5.69	0.97	0	14	3	98	0.00	0.0	14.299	1.122	14	3	7	7
1140	11356	C	4ACSR	14.41Y	120.1	0.32	5.94	39.76	20	562	118	98	1.39	0.2	12.868	0.339	26	5	5	221
11401S	1140	C	25L	14.41Y	120.1	-0.00	5.94	5.08	20	72	15	98	0.00	0.0	12.868	0.000	0	0	0	29
11401	11401S	C	4ACSR	14.40Y	120.0	0.06	6.00	5.08	3	72	15	98	0.02	0.0	13.806	0.938	72	15	29	29
11402R	1140	C	Regulator	15.12Y	126.0	-5.94	0.00	32.83	33	463	97	98	0.00	0.0	12.868	0.000	0	0	0	187
11402S	11402R	C	50V4E	15.12Y	126.0	0.00	0.00	31.28	63	463	97	98	0.00	0.0	12.868	0.000	0	0	0	187
11402	11402S	C	4ACSR	15.07Y	125.6	0.42	0.42	31.28	15	463	97	98	1.43	0.3	13.435	0.567	26	5	8	187

Balanced Voltage Drop Report  
Source: FRENCHBURG

Database: D:\MILSOFT\WINTER 2007-2008 LRP MODEL\INITIAL MODEL - ACTUAL JANUARY 2002 LOADS.WM\

Title:

Case:

01/22/2003 13:15

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
11450	11402	C	4ACSR	15.06Y	125.5	0.12	0.54	29.52	15	435	91	98	0.38	0.1	13.599	0.164	6	1	5	179
1141S	11450	C	25V4E	15.06Y	125.5	-0.00	0.54	12.02	48	177	37	98	0.00	0.0	13.599	0.000	0	0	0	60
1141	1141S	C	6ACWC	15.03Y	125.3	0.18	0.72	12.02	6	177	37	98	0.20	0.1	14.365	0.766	75	16	26	60
11412	1141	C	6ACWC	15.03Y	125.2	0.04	0.75	2.83	1	42	9	98	0.01	0.0	14.994	0.629	14	3	12	22
11414	11412	C	6ACWC	15.03Y	125.2	0.02	0.77	1.48	1	22	5	98	0.00	0.0	15.739	0.745	11	2	5	7
11415	11414	C	6ACWC	15.03Y	125.2	0.01	0.78	0.72	0	11	2	98	0.00	0.0	16.768	1.029	11	2	2	2
11413	11412	C	6ACWC	15.03Y	125.2	0.00	0.76	0.40	0	6	1	99	0.00	0.0	15.651	0.657	6	1	3	3
11411	1141	C	6ACWC	15.03Y	125.2	0.06	0.77	4.11	2	61	13	98	0.02	0.0	15.538	1.173	61	13	12	12
11457	11450	C	6ACWC	15.05Y	125.4	0.07	0.61	17.06	9	252	52	98	0.13	0.1	13.775	0.176	5	1	1	114
1142S	11457	C	35V4E	15.05Y	125.4	-0.00	0.61	4.98	14	73	15	98	0.00	0.0	13.775	0.000	0	0	0	39
1142	1142S	C	6ACWC	15.04Y	125.3	0.09	0.70	4.98	2	73	15	98	0.04	0.1	14.662	0.887	26	5	11	39
1144	1142	C	6ACWC	15.03Y	125.3	0.01	0.71	1.29	1	19	4	98	0.00	0.0	15.187	0.525	18	4	15	17
11443	1144	C	2ACSR	15.03Y	125.3	0.00	0.71	0.06	0	1	0	100	0.00	0.0	15.889	0.702	1	0	2	2
1143	1142	C	4ACSR	15.03Y	125.3	0.02	0.72	1.89	1	28	6	98	0.00	0.0	15.575	0.914	28	6	11	11
11456	11457	C	6ACWC	15.02Y	125.2	0.21	0.83	11.72	6	173	36	98	0.24	0.1	14.746	0.971	76	16	27	74
11451S	11456	C	25V4E	15.02Y	125.2	0.00	0.83	2.29	9	34	7	98	0.00	0.0	14.746	0.000	0	0	0	20
11451	11451S	C	2ACSR	15.02Y	125.1	0.03	0.85	2.29	1	34	7	98	0.00	0.0	16.042	1.297	34	7	20	20
11454	11456	C	4ACSR	15.02Y	125.1	0.04	0.87	4.25	2	63	13	98	0.02	0.0	15.156	0.410	0	0	1	27
11442S	11454	C	25V4E	15.02Y	125.1	0.00	0.87	1.23	5	18	4	98	0.00	0.0	15.156	0.000	0	0	0	11
11442	11442S	C	6ACWC	15.01Y	125.1	0.02	0.89	1.23	1	18	4	98	0.00	0.0	16.584	1.428	18	4	11	11
P 11441	11442	C	6ACWC	15.01Y	125.1	-0.00	0.89	0.00	0	0	0	0	0.00	0.0	16.919	0.335	0	0	0	P
1145	11454	C	4ACSR	15.01Y	125.1	0.03	0.91	3.02	1	44	9	98	0.01	0.0	16.100	0.944	44	9	15	15
11353	11358	B	4ACSR	14.68Y	122.3	0.08	3.70	4.90	2	70	15	98	0.03	0.0	12.294	1.387	70	15	50	50
11351	11359	A	4ACSR	14.69Y	122.4	0.00	3.59	1.42	1	20	4	98	0.00	0.0	10.825	0.258	20	4	7	7
11342S	11341	A	25L	14.70Y	122.5	-0.00	3.49	2.07	8	30	6	98	0.00	0.0	9.470	0.000	0	0	0	20
11342	11342S	A	4ACSR	14.70Y	122.5	0.01	3.50	2.07	1	30	6	98	0.00	0.0	10.012	0.542	30	6	20	20
11343	11341	ABC	336ACSR	14.70Y	122.5	0.00	3.49	22.36	3	963	213	98	0.02	0.0	9.505	0.035	5	1	2	613
113431S	11343	ABC	VWVE	14.70Y	122.5	-0.00	3.49	22.24	0	958	212	98	0.00	0.0	9.505	0.000	0	0	0	611
113431	113431S	ABC	336ACSR	14.70Y	122.5	0.00	3.49	22.24	3	958	212	98	0.01	0.0	9.534	0.030	0	0	0	611
11344S	113431	A	35L	14.70Y	122.5	0.00	3.49	10.70	31	154	32	98	0.00	0.0	9.534	0.000	0	0	0	85
11344	11344S	A	4ACSR	14.69Y	122.4	0.10	3.59	10.70	5	154	32	98	0.08	0.1	10.314	0.780	154	32	85	85
11345	113431	ABC	2ACSR	14.69Y	122.4	0.07	3.56	18.68	7	804	180	98	0.41	0.1	9.786	0.252	13	3	2	526
11346S	11345	A	35L	14.69Y	122.4	0.00	3.56	1.39	4	20	4	98	0.00	0.0	9.786	0.000	0	0	0	22
11346	11346S	A	4ACSR	14.69Y	122.4	0.01	3.57	1.39	1	20	4	98	0.00	0.0	10.318	0.532	20	4	22	22
11347	11345	ABC	2ACSR	14.68Y	122.3	0.12	3.68	17.90	7	770	173	98	0.70	0.1	10.280	0.493	65	21	19	502
11348S	11347	A	35E	14.68Y	122.3	-0.00	3.68	6.04	17	87	18	98	0.00	0.0	10.280	0.000	0	0	0	87
11348	11348S	A	4ACSR	14.67Y	122.2	0.09	3.77	6.04	3	87	18	98	0.04	0.0	11.479	1.200	87	18	87	87
11350	11347	C	2ACSR	14.68Y	122.3	0.00	3.68	0.09	0	1	0	100	0.00	0.0	10.677	0.397	1	0	2	2
11349	11347	ABC	2ACSR	14.67Y	122.3	0.06	3.74	14.32	5	616	134	98	0.27	0.0	10.565	0.286	31	12	5	394
1058S	11349	ABC	50E	14.67Y	122.3	0.00	3.74	13.57	27	585	122	98	0.00	0.0	10.565	0.000	0	0	0	389
1058	1058S	ABC	2ACSR	14.67Y	122.2	0.03	3.77	13.57	5	585	122	98	0.13	0.0	10.717	0.151	3	1	2	389
10582	1058	ABC	2ACSR	14.67Y	122.2	0.02	3.79	12.16	5	524	109	98	0.07	0.0	10.818	0.101	36	7	16	352
1136	10582	B	4ACSR	14.65Y	122.1	0.13	3.91	9.27	5	133	28	98	0.10	0.1	11.617	0.799	79	16	52	104
11361	1136	B	4ACSR	14.65Y	122.1	0.04	3.95	3.75	2	54	11	98	0.01	0.0	12.412	0.795	54	11	52	52
1057	10582	B	4ACSR	14.60Y	121.7	0.55	4.33	24.72	12	355	74	98	1.43	0.4	11.783	0.965	45	9	25	232
10571S	1057	B	25L	14.60Y	121.7	0.00	4.33	3.89	16	56	12	98	0.00	0.0	11.783	0.000	0	0	0	30
10571	10571S	B	4ACSR	14.60Y	121.6	0.03	4.36	3.89	2	56	12	98	0.01	0.0	12.382	0.599	56	12	30	30
10572	1057	B	4ACSR	14.60Y	121.6	0.04	4.37	17.72	9	253	52	98	0.07	0.0	11.865	0.081	3	1	1	177
10575S	10572	B	25L	14.60Y	121.6	0.00	4.37	2.52	10	36	7	98	0.00	0.0	11.865	0.000	0	0	0	26
10575	10575S	B	4ACSR	14.59Y	121.6	0.01	4.38	2.52	1	36	7	98	0.00	0.0	12.292	0.427	36	7	26	26
10574S	10572	B	25L	14.60Y	121.6	0.00	4.37	7.93	32	113	23	98	0.00	0.0	11.865	0.000	0	0	0	74
10574	10574S	B	4ACSR	14.59Y	121.5	0.09	4.46	7.93	4	113	23	98	0.05	0.0	12.776	0.911	113	23	74	74

Balanced Voltage Drop Report  
Source: FRENCHBURG

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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	
10573S	10572	B	25L	14.60Y	121.6	0.00	4.37	7.03	28	100	21	98	0.00	0.0	11.865	0.000	0	0	0	76
10573	10573S	B	4ACSR	14.59Y	121.6	0.06	4.43	7.03	3	100	21	98	0.03	0.0	12.538	0.673	100	21	76	76
10581	1058	B	4ACSR	14.66Y	122.2	0.03	3.80	4.01	2	58	12	98	0.01	0.0	11.255	0.538	58	12	35	35
11332	11331	A	4ACSR	14.75Y	122.9	0.02	3.09	1.27	1	18	4	98	0.00	0.0	10.115	1.219	18	4	4	4
10651	1065	C	2ACSR	14.92Y	124.3	0.00	1.70	0.48	0	7	1	99	0.00	0.0	7.066	0.720	7	1	6	6
10753	10752	A	4ACSR	14.99Y	124.9	0.01	1.12	2.04	1	30	6	98	0.00	0.0	1.846	0.423	30	6	11	11
10751	1075	A	4ACSR	14.99Y	124.9	0.01	1.06	0.56	0	8	2	97	0.00	0.0	2.190	1.012	8	2	10	10

Balanced Voltage Drop Report  
Source: HOPE

Database: D:\MILSOFT\WINTER 2007-2008 LRP MODEL\INITIAL MODEL - ACTUAL JANUARY 2002 LOADS.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
----- Feeder NO. 1 Beginning with Node Element HO1 -----																				
HO1	HOPE	ABC	Node	15.12Y	126.0	0.00	0.00	10.45	0	466	84	98	0.00	0.0	0.000	0.000	0	0	0	181
710	HO1	ABC	1/OCU	15.11Y	125.9	0.07	0.07	10.45	2	466	84	98	0.20	0.0	1.178	1.178	85	15	46	181
7101	710	ABC	1/OCU	15.11Y	125.9	0.05	0.12	8.55	2	382	69	98	0.14	0.0	2.243	1.066	26	5	19	135
7102	7101	ABC	1/OCU	15.10Y	125.9	0.03	0.15	7.98	2	356	64	98	0.06	0.0	2.797	0.553	16	3	8	116
71022	7102	ABC	1/OCU	15.10Y	125.8	0.00	0.15	7.61	2	339	61	98	0.01	0.0	2.880	0.084	0	0	0	108
674S	71022	A	50L	15.10Y	125.8	0.00	0.15	0.00	0	0	0	0	0.00	0.0	2.880	0.000	0	0	0	0
674	71022	A	4ACSR	15.03Y	125.3	0.56	0.71	22.84	11	339	61	98	1.40	0.4	3.922	1.041	18	3	9	108
6742	674	A	4ACSR	15.02Y	125.2	0.11	0.82	20.10	10	298	53	98	0.24	0.1	4.143	0.222	0	0	1	90
6744	6742	A	4ACSR	15.00Y	125.0	0.16	0.98	17.75	9	262	47	98	0.30	0.1	4.537	0.393	36	6	12	74
668S	6744	A	25V4E	15.00Y	125.0	-0.00	0.98	3.39	14	50	9	98	0.00	0.0	4.537	0.000	0	0	0	24
668	668S	A	4ACSR	15.00Y	125.0	0.03	1.01	3.39	2	50	9	98	0.01	0.0	5.119	0.582	39	7	18	24
6681	668	A	4ACSR	15.00Y	125.0	0.01	1.02	0.73	0	11	2	98	0.00	0.0	5.925	0.806	11	2	6	6
673	6744	A	4ACSR	14.98Y	124.9	0.15	1.13	11.95	6	176	31	98	0.15	0.1	5.304	0.767	120	21	22	38
6731S	673	A	50V4E	14.98Y	124.9	-0.00	1.13	3.84	8	57	10	98	0.00	0.0	5.304	0.000	0	0	0	16
6731	6731S	A	4ACSR	14.98Y	124.8	0.05	1.17	3.84	2	57	10	98	0.01	0.0	6.279	0.975	57	10	16	16
6743	6742	A	4ACSR	15.02Y	125.1	0.03	0.85	2.35	1	35	6	99	0.01	0.0	5.247	1.104	35	6	15	15
6741	674	A	4ACSR	15.03Y	125.3	0.02	0.73	1.50	1	22	4	98	0.00	0.0	4.837	0.915	22	4	9	9
P 674R	7102	A	Regulator	15.12Y	126.0	-0.15	0.00	0.00	0	0	0	0	0.00	0.0	2.797	0.000	0	0	0	0 P



Balanced Voltage Drop Report
Source: HUNT

Database: D:\MILSOFT\WINTER 2007-2008 LRP MODEL\INITIAL MODEL - ACTUAL JANUARY 2002 LOADS.WM\

Title:

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Table with columns: 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 From Src, Length (mi), Element KW, KVAR, Cons On, Cons Thru. Includes rows for HU2 and its sub-elements.

Table with columns: 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 From Src, Length (mi), Element KW, KVAR, Cons On, Cons Thru. Includes rows for HU4 and its sub-elements.

Balanced Voltage Drop Report  
Source: HUNT

Database: D:\MILSOFT\WINTER 2007-2008 LRP MODEL\INITIAL MODEL - ACTUAL JANUARY 2002 LOADS.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-----		Cons On	Cons Thru
60SW-A	60	ABC	Closed	14.98Y	124.9	0.00	1.14	40.02	0	1798	55	100	0.00	0.0	5.169	0.000	0	0	0	403
P 60SW-B	60SW-A	ABC	Closed	14.98Y	124.9	0.00	1.14	0.00	0	0	0	0	0.00	0.0	5.169	0.000	0	0	0	0
60000	60SW-A	ABC	2ACSR	14.96Y	124.6	0.23	1.37	40.02	15	1798	55	100	3.24	0.2	5.595	0.426	0	0	0	403
57	60000	ABC	2ACSR	14.88Y	124.0	0.62	1.99	40.02	15	1795	53	100	8.70	0.5	6.766	1.171	48	9	9	403
57000	57	ABC	2ACSR	14.83Y	123.6	0.41	2.40	38.93	15	1738	39	100	5.70	0.3	7.559	0.793	1	0	2	394
57001S	57000	ABC	VWVE	14.83Y	123.6	-0.00	2.40	38.90	0	1730	36	100	0.00	0.0	7.559	0.000	0	0	0	392
570011	57001S	ABC	2ACSR	14.83Y	123.6	0.02	2.42	38.90	15	1730	36	100	0.32	0.0	7.603	0.045	0	0	0	392
57001R	570011	ABC	Regulator	15.12Y	126.0	-2.42	0.00	38.90	39	1730	35	100	0.00	0.0	7.603	0.000	0	0	0	392
57001	57001R	ABC	2ACSR	15.11Y	125.9	0.05	0.05	38.15	14	1730	35	100	0.69	0.0	7.704	0.100	0	0	0	392
56	57001	B	4ACSR	15.11Y	125.9	0.00	0.05	0.04	0	1	0	100	0.00	0.0	8.973	1.269	1	0	1	1
55	57001	ABC	2ACSR	15.02Y	125.2	0.79	0.85	38.14	14	1729	35	100	10.77	0.6	9.277	1.573	19	4	6	391
41	55	ABC	1/OACSR	14.98Y	124.8	0.34	1.19	29.52	9	1329	-40	-100	3.66	0.3	10.729	1.452	104	20	25	271
43	41	ABC	1/OACSR	14.96Y	124.7	0.11	1.30	26.32	8	1181	-71	-100	1.09	0.1	11.248	0.520	30	6	11	235
45C	43	ABC	Capacitor	14.96Y	124.7	0.00	1.30	21.98	0	981	-110	-99	0.00	0.0	11.248	0.000	0	0	0	180
45000S	45C	ABC	50V4E	14.96Y	124.7	0.00	1.30	12.15	24	536	104	98	0.00	0.0	11.248	0.000	0	0	0	99
45000	45000S	ABC	1/OACSR	14.95Y	124.6	0.12	1.42	12.15	4	536	104	98	0.46	0.1	12.372	1.124	72	14	15	99
52S	45000	B	35V4E	14.95Y	124.6	0.00	1.42	0.00	0	0	0	0	0.00	0.0	12.372	0.000	0	0	0	0
45001S	45000	A	U	14.95Y	124.6	0.00	1.42	8.90	0	131	25	98	0.00	0.0	12.372	0.000	0	0	0	28
45001	45001S	A	4ACSR	14.94Y	124.5	0.04	1.47	8.90	4	131	25	98	0.04	0.0	12.570	0.198	0	0	0	28
54	45001	A	4ACSR	14.94Y	124.5	0.03	1.50	3.19	2	47	9	98	0.01	0.0	13.317	0.746	40	8	9	10
54003	54	A	4ACSR	14.94Y	124.5	0.01	1.51	0.46	0	7	1	99	0.00	0.0	14.626	1.309	7	1	1	1
P 54002	54	A	4ACSR	14.94Y	124.5	-0.00	1.50	0.00	0	0	0	0	0.00	0.0	13.691	0.374	0	0	0	0
53	45001	A	4ACSR	14.93Y	124.4	0.12	1.59	5.72	3	84	16	98	0.05	0.1	14.341	1.771	84	16	18	18
52	45000	B	4ACSR	14.86Y	123.8	0.74	2.16	22.65	11	332	64	98	1.57	0.5	14.118	1.745	154	30	24	56
52000	52	B	4ACSR	14.86Y	123.8	0.01	2.17	5.27	3	77	15	98	0.00	0.0	14.183	0.066	2	0	3	16
P 52002	52000	B	4ACSR	14.86Y	123.8	-0.00	2.17	0.00	0	0	0	0	0.00	0.0	14.261	0.078	0	0	0	0
52001	52000	B	4ACSR	14.85Y	123.8	0.04	2.21	5.10	3	74	14	98	0.02	0.0	14.848	0.665	74	14	13	13
51	52	B	4ACSR	14.85Y	123.7	0.10	2.26	6.82	3	100	19	98	0.05	0.0	15.304	1.186	99	19	16	16
46	45C	ABC	1/OACSR	14.96Y	124.7	0.01	1.31	10.21	3	445	110	97	0.03	0.0	11.348	0.099	17	3	4	81
46000S	46	ABC	50V4E	14.96Y	124.7	0.00	1.31	9.82	20	428	107	97	0.00	0.0	11.348	0.000	0	0	0	77
46000	46000S	ABC	1/OACSR	14.95Y	124.6	0.09	1.40	9.82	3	428	107	97	0.22	0.1	12.620	1.272	238	70	26	77
38S	46000	A	25V4E	14.95Y	124.6	-0.00	1.40	9.77	39	143	28	98	0.00	0.0	12.620	0.000	0	0	0	43
38	38S	A	6ACWC	14.94Y	124.5	0.14	1.53	9.77	5	143	28	98	0.13	0.1	13.316	0.697	49	9	18	43
38000	38	A	6ACWC	14.92Y	124.3	0.15	1.68	6.43	3	94	18	98	0.08	0.1	14.617	1.301	52	10	13	25
38001	38000	A	6ACWC	14.91Y	124.3	0.04	1.72	2.89	1	42	8	98	0.01	0.0	15.624	1.007	42	8	12	12
50	46000	A C	1/OACSR	14.95Y	124.6	0.01	1.40	1.56	0	46	9	98	0.00	0.0	13.256	0.637	46	9	8	8
45	43	ABC	1/OACSR	14.96Y	124.7	0.00	1.30	0.45	0	20	4	98	0.00	0.0	11.573	0.325	20	4	7	7
44	43	C	4ACSR	14.95Y	124.6	0.09	1.39	10.16	5	149	29	98	0.10	0.1	11.610	0.362	1	0	1	37
44000S	44	C	50V4E	14.95Y	124.6	-0.00	1.39	10.09	20	148	29	98	0.00	0.0	11.610	0.000	0	0	0	36
44000	44000S	C	4ACSR	14.93Y	124.4	0.23	1.62	10.09	5	148	29	98	0.17	0.1	13.496	1.886	148	28	36	36
42	41	C	4ACSR	14.97Y	124.8	0.03	1.22	2.75	1	40	8	98	0.01	0.0	11.597	0.868	40	8	11	11
40	55	ABC	1/OACSR	15.02Y	125.1	0.02	0.87	8.33	2	370	65	98	0.06	0.0	9.578	0.301	0	0	0	114
40000S	40	ABC	25V4E	15.02Y	125.1	0.00	0.87	8.33	33	369	65	98	0.00	0.0	9.578	0.000	0	0	0	114
40000	40000S	ABC	1/OACSR	15.01Y	125.1	0.05	0.92	8.33	2	369	65	98	0.12	0.0	10.148	0.570	2	0	2	114
40002	40000	ABC	1/OACSR	15.00Y	125.0	0.10	1.02	8.03	2	356	63	98	0.25	0.1	11.557	1.409	50	10	14	108
35	40002	A	4ACSR	14.98Y	124.8	0.15	1.17	8.69	4	129	19	99	0.13	0.1	12.396	0.839	38	7	7	40
37	35	A	4ACSR	14.98Y	124.8	0.03	1.19	1.11	1	16	3	98	0.00	0.0	13.534	1.138	6	1	5	9
37000	37	A	4ACSR	14.98Y	124.8	0.01	1.20	0.73	0	11	2	98	0.00	0.0	14.965	1.431	11	2	4	4
36	35	A	OKOGUARD M	14.98Y	124.8	0.01	1.18	4.98	3	74	8	99	0.01	0.0	12.695	0.299	31	6	11	24
36000	36	A	1/OACSR	14.98Y	124.8	0.02	1.20	2.94	1	43	8	98	0.00	0.0	13.705	1.010	43	8	13	13
34	40002	C	4ACSR	14.96Y	124.6	0.35	1.37	12.05	6	177	34	98	0.45	0.3	12.812	1.255	17	3	8	54
34000	34	C	4ACSR	14.93Y	124.4	0.22	1.59	10.91	5	160	31	98	0.23	0.1	13.796	0.984	57	11	16	46

Balanced Voltage Drop Report  
Source: HUNT

Database: D:\MILSOFT\WINTER 2007-2008 LRP MODEL\INITIAL MODEL - ACTUAL JANUARY 2002 LOADS.WM\

Title:

Case:

01/22/2003 13:15

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	
33	34000	C	4ACSR	14.92Y	124.4	0.04	1.63	3.07	2	45	9	98	0.01	0.0	14.965	1.170	45	9	8	8
32	34000	C	4ACSR	14.92Y	124.3	0.08	1.67	3.95	2	58	11	98	0.02	0.0	15.483	1.687	58	11	22	22
40001	40000	C	4ACSR	15.01Y	125.1	0.01	0.92	0.77	0	11	2	98	0.00	0.0	11.095	0.947	11	2	4	4
63	6666	B	4ACSR	15.06Y	125.5	0.16	0.47	19.14	9	283	55	98	0.34	0.1	2.330	0.352	12	2	4	61
63000S	63	B	35V4E	15.06Y	125.5	0.00	0.47	0.00	0	0	0	0	0.00	0.0	2.330	0.000	0	0	0	0
63000	63	B	4ACSR	15.01Y	125.1	0.46	0.92	18.36	9	272	52	98	0.75	0.3	3.750	1.421	154	30	29	57
63001	63000	B	4ACSR	14.99Y	124.9	0.13	1.05	7.91	4	117	22	98	0.09	0.1	4.655	0.904	64	12	14	28
63002	63001	B	4ACSR	14.99Y	124.9	0.03	1.09	3.54	2	52	10	98	0.01	0.0	5.461	0.807	52	10	14	14

Balanced Voltage Drop Report  
Source: MARIBA

Database: D:\MILSOFT\WINTER 2007-2008 LRP MODEL\INITIAL MODEL - ACTUAL JANUARY 2002 LOADS.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-		Cons On	Cons Thru
----- Feeder NO. 1 Beginning with Node Element MA1 -----																				
MA1	MARIBA	ABC	Node	7.56Y	126.0	0.00	0.00	54.89	0	1204	316	97	0.00	0.0	0.000	0.000	0	0	0	268
1105	MA1	ABC	1/OACSR	7.52Y	125.3	0.66	0.66	54.89	16	1204	316	97	5.52	0.5	0.594	0.594	8	0	10	268
1106	1105	ABC	1/OACSR	7.47Y	124.6	0.77	1.43	54.56	16	1191	312	97	5.82	0.5	1.506	0.913	384	351	28	258
11061S	1106	C	25V4E	7.47Y	124.6	-0.00	1.43	7.44	30	56	-3	-100	0.00	0.0	1.506	0.000	0	0	0	36
11061	11061S	C	2ACSR	7.47Y	124.5	0.07	1.50	7.44	3	56	-3	-100	0.02	0.0	2.092	0.586	51	-3	24	36
11062	11061	C	2ACSR	7.47Y	124.5	0.01	1.51	0.59	0	4	0	100	0.00	0.0	2.909	0.817	4	0	12	12
P 1106C	1106	ABC	Capacitor	7.47Y	124.6	0.00	1.43	-7.21	0	0	-162	0	0.00	0.0	1.506	0.000	0	0	0	P
11063	1106	ABC	1/OACSR	7.45Y	124.2	0.41	1.84	33.69	10	746	120	99	2.15	0.3	2.163	0.657	68	-4	25	194
11065	11063	ABC	1/OACSR	7.44Y	124.0	0.12	1.96	28.41	8	623	125	98	0.53	0.1	2.378	0.215	20	-1	5	151
11101	11065	ABC	1/OACSR	7.44Y	123.9	0.12	2.08	27.55	8	602	125	98	0.51	0.1	2.594	0.216	0	0	1	146
1110S	11101	ABC	50V4E	7.44Y	123.9	0.00	2.08	26.03	52	567	127	98	0.00	0.0	2.594	0.000	0	0	0	127
1110	1110S	ABC	1/OACSR	7.42Y	123.6	0.28	2.36	26.03	8	567	127	98	1.11	0.2	3.147	0.552	33	-2	14	127
1111	1110	ABC	1/OACSR	7.41Y	123.5	0.17	2.52	24.59	7	532	127	97	0.55	0.1	3.576	0.429	211	77	26	113
111101S	1111	ABC	25V4E	7.41Y	123.5	-0.00	2.52	0.00	0	0	0	0	0.00	0.0	3.576	0.000	0	0	0	0
11121	1111	C	4ACSR	7.40Y	123.4	0.08	2.60	9.86	5	73	-4	-100	0.05	0.1	3.753	0.177	1	0	1	49
1112S	11121	C	25V4E	7.40Y	123.4	0.00	2.60	9.73	39	72	-4	-100	0.00	0.0	3.753	0.000	0	0	0	48
1112	1112S	C	4ACSR	7.38Y	123.1	0.33	2.93	9.73	5	72	-4	-100	0.13	0.2	5.316	1.563	72	-4	48	48
111101	1111	ABC	1/OACSR	7.40Y	123.4	0.11	2.63	11.40	3	248	54	98	0.13	0.1	4.512	0.937	248	54	38	38
11102S	11101	B	25L	7.44Y	123.9	-0.00	2.08	4.69	19	35	-2	-100	0.00	0.0	2.594	0.000	0	0	0	18
11102	11102S	B	2ACSR	7.43Y	123.8	0.09	2.16	4.69	2	35	-2	-100	0.02	0.0	3.877	1.283	35	-2	18	18
11064	11063	C	4ACSR	7.45Y	124.1	0.05	1.89	7.10	4	53	-3	-100	0.01	0.0	2.484	0.321	53	-3	18	18
----- Feeder NO. 3 Beginning with Node Element MA3 -----																				
MA3	MARIBA	ABC	Node	7.56Y	126.0	0.00	0.00	52.25	0	1153	274	97	0.00	0.0	0.000	0.000	0	0	0	239
1120	MA3	ABC	336ACSR	7.55Y	125.9	0.14	0.14	52.25	7	1153	274	97	0.89	0.1	0.360	0.360	10	-1	8	239
11201	1120	ABC	336ACSR	7.55Y	125.8	0.08	0.22	51.82	7	1142	272	97	0.50	0.0	0.568	0.207	6	0	4	231
1121S	11201	B	35V4E	7.55Y	125.8	-0.00	0.22	1.84	5	14	-1	-100	0.00	0.0	0.568	0.000	0	0	0	17
1121	1121S	B	4ACSR	7.54Y	125.7	0.06	0.28	1.84	1	14	-1	-100	0.01	0.0	1.506	0.939	5	0	4	17
11211	1121	B	4ACSR	7.54Y	125.7	0.03	0.31	1.24	1	9	0	100	0.00	0.0	2.570	1.064	9	0	13	13
1117	11201	ABC	4ACSR	7.43Y	123.8	1.98	2.19	50.96	25	1121	272	97	17.06	1.5	1.477	0.909	29	-2	19	210
11172	1117	ABC	4ACSR	7.42Y	123.7	0.14	2.33	49.27	24	1065	268	97	1.14	0.1	1.540	0.064	0	0	1	181
11173	11172	C	4ACSR	7.42Y	123.7	0.02	2.35	1.10	1	8	0	100	0.00	0.0	2.316	0.776	8	0	10	10
1116	11172	ABC	6ACWC	7.30Y	121.7	1.92	4.25	48.91	24	1055	268	97	15.93	1.5	2.471	0.930	31	-2	33	170
11161S	1116	A	25V4E	7.30Y	121.7	0.00	4.25	3.31	13	24	-1	-100	0.00	0.0	2.471	0.000	0	0	0	19
11161	11161S	A	6ACWC	7.30Y	121.7	0.08	4.34	3.31	2	24	-1	-100	0.01	0.0	3.652	1.181	24	-1	19	19
11162R	1116	ABC	Regulator	7.56Y	126.0	-4.25	0.00	46.50	47	984	266	97	0.00	0.0	2.471	0.000	0	0	0	118
111622	11162R	ABC	6ACWC	7.55Y	125.8	0.15	0.15	44.93	22	984	266	97	1.17	0.1	2.550	0.079	0	0	0	118
111622C	111622	ABC	Capacitor	7.55Y	125.8	-0.00	0.15	44.93	0	983	265	97	0.00	0.0	2.550	0.000	0	0	0	118
11162	111622C	ABC	6ACWC	7.53Y	125.5	0.30	0.45	47.36	24	983	430	92	2.41	0.2	2.697	0.147	2	0	2	118
1115S	11162	B	25V4E	7.53Y	125.5	0.00	0.45	2.92	12	22	-1	-100	0.00	0.0	2.697	0.000	0	0	0	16
1115	1115S	B	6ACWC	7.53Y	125.5	0.05	0.51	2.92	1	22	-1	-100	0.01	0.0	3.571	0.874	22	-1	16	16
1114S	11162	ABC	VWVE	7.53Y	125.5	-0.00	0.45	46.41	0	956	431	91	0.00	0.0	2.697	0.000	0	0	0	100
1114	1114S	ABC	4ACSR	7.41Y	123.5	2.02	2.47	46.41	23	956	431	91	15.88	1.7	3.723	1.027	38	-2	20	100
11141	1114	ABC	4ACSR	7.33Y	122.2	1.32	3.79	44.90	22	902	427	90	9.70	1.1	4.449	0.726	98	79	11	80
11143	11141	ABC	6ACWC	7.23Y	120.6	1.64	5.43	38.90	19	783	345	92	10.74	1.4	5.452	1.003	40	-2	29	60
11144	11143	ABC	6ACWC	7.19Y	119.8	0.75	6.18	37.26	19	732	344	91	4.79	0.7	5.925	0.473	4	0	4	31
C 11145S	11144	ABC	35V4E	7.19Y	119.8	0.00	6.18	37.10	106	723	342	90	0.00	0.0	5.925	0.000	0	0	0	27
11145	11145S	ABC	6ACWC	7.16Y	119.3	0.54	6.72	37.10	19	723	342	90	2.29	0.3	6.609	0.683	721	341	27	27
11142	11141	A	6ACWC	7.33Y	122.2	0.02	3.82	1.62	1	12	-1	-100	0.00	0.0	5.165	0.716	12	-1	9	9
11171	1117	C	4ACSR	7.43Y	123.8	0.02	2.21	1.37	1	10	-1	-100	0.00	0.0	2.117	0.641	10	-1	10	10

Balanced Voltage Drop Report  
Source: MT STERLING

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Title:

Case:

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-----Element-----																							
Units Displayed In Volts																		mi		-----Element-----			
-Base Voltage:120.0-																		From	Length	KW	KVAR	Cons	Cons
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	Src	(mi)	KW	KVAR	On	Thru			
----- Feeder NO. 1 Beginning with Node Element MS1 -----																							
<b>MS1</b>	<b>MT STERLING</b>	ABC	Node	7.56Y	126.0	0.00	0.00	41.74	0	942	-99	-99	0.00	0.0	0.000	0.000	0	0	0	340			
46300	MS1	ABC	4/OACSR	7.56Y	125.9	0.05	0.05	41.74	9	942	-99	-99	0.48	0.1	0.162	0.162	10	1	7	340			
46430	46300	B	4ACSR	7.53Y	125.5	0.40	0.46	38.34	19	289	23	100	0.87	0.3	0.397	0.234	22	1	12	98			
464S	46430	B	70V4E	7.53Y	125.5	0.00	0.46	0.69	1	5	0	100	0.00	0.0	0.397	0.000	0	0	0	1			
464	464S	B	4ACSR	7.53Y	125.5	0.00	0.46	0.69	0	5	0	100	0.00	0.0	0.630	0.234	5	0	1	1			
<b>46431</b>	<b>46430</b>	<b>B</b>	<b>4ACSR</b>	<b>7.40Y</b>	<b>123.3</b>	2.28	2.74	34.70	17	261	21	100	4.31	1.7	1.929	1.533	43	3	20	85			
C 46432S	46431	B	35V4E	7.40Y	123.3	-0.00	2.74	28.90	83	213	16	100	0.00	0.0	1.929	0.000	0	0	0	65			
46432	46432S	B	4ACSR	7.28Y	121.4	1.86	4.60	28.90	14	213	16	100	2.90	1.4	3.473	1.544	44	3	12	65			
466	46432	B	4ACSR	7.25Y	120.8	0.64	5.23	18.54	9	135	9	100	0.66	0.5	4.243	0.770	12	1	6	45			
4662	466	B	4ACSR	7.22Y	120.3	0.50	5.74	16.20	8	117	8	100	0.36	0.3	5.298	1.055	86	6	24	35			
4664	4662	B	4ACSR	7.21Y	120.2	0.08	5.82	3.89	2	28	2	100	0.01	0.0	6.192	0.894	28	2	9	9			
4663	4662	B	4ACSR	7.22Y	120.3	0.01	5.74	0.36	0	3	0	100	0.00	0.0	6.140	0.842	3	0	2	2			
4661	466	B	4ACSR	7.24Y	120.7	0.02	5.25	0.73	0	5	0	100	0.00	0.0	5.354	1.111	5	0	4	4			
465	46432	B	4ACSR	7.28Y	121.3	0.13	4.73	4.35	2	32	2	100	0.02	0.1	4.751	1.278	32	2	8	8			
463	46300	ABC	4/OACSR	7.54Y	125.7	0.21	0.27	28.85	6	642	-124	-98	1.49	0.2	1.439	1.277	144	9	59	235			
4632	463	A	4ACSR	7.54Y	125.7	0.01	0.28	2.13	1	16	1	100	0.00	0.0	1.655	0.215	16	1	12	12			
4631	463	ABC	4/OACSR	7.54Y	125.7	0.01	0.27	22.08	5	481	-136	-96	0.04	0.0	1.493	0.053	1	0	1	164			
P 4635C	4631	ABC	Capacitor	7.54Y	125.7	0.00	0.27	7.43	0	47	-162	-28	0.00	0.0	1.493	0.000	0	0	0	18			
4633	4635C	A	4ACSR	7.54Y	125.7	0.03	0.31	6.22	3	47	3	100	0.01	0.0	1.734	0.241	47	3	18	18			
4635	4631	ABC	4/OACSR	7.54Y	125.7	0.03	0.30	19.15	4	433	25	100	0.09	0.0	1.655	0.163	41	3	10	145			
4639	4635	A	OKOGUARD M	7.54Y	125.7	0.02	0.33	10.84	6	82	4	100	0.01	0.0	1.872	0.217	82	5	32	32			
4638	4635	ABC	4/OACSR	7.54Y	125.6	0.05	0.35	13.71	3	310	18	100	0.10	0.0	2.022	0.367	56	4	16	103			
4642	4638	ABC	4/OACSR	7.54Y	125.6	0.01	0.36	9.22	2	208	12	100	0.01	0.0	2.116	0.094	21	1	7	75			
4643	4642	ABC	4/OACSR	7.54Y	125.6	0.00	0.36	5.64	1	127	8	100	0.00	0.0	2.193	0.077	22	1	8	40			
4644	4643	ABC	1/OACSR	7.54Y	125.6	0.01	0.37	4.68	1	106	7	100	0.00	0.0	2.316	0.123	68	4	26	32			
4637S	4644	A	35V4E	7.54Y	125.6	0.00	0.37	0.00	0	0	0	0	0.00	0.0	2.316	0.000	0	0	0	0			
P 4637	4637S	A	4ACSR	7.54Y	125.6	0.00	0.37	0.00	0	0	0	0	0.00	0.0	2.512	0.196	0	0	0	0			
4645	4644	ABC	1/OACSR	7.54Y	125.6	0.01	0.38	1.67	0	38	2	100	0.00	0.0	2.658	0.343	0	0	0	6			
462	4645	C	4ACSR	7.53Y	125.5	0.11	0.49	5.01	2	38	2	100	0.02	0.1	3.625	0.967	38	2	6	6			
P 461	4645	ABC	1/OACSR	7.54Y	125.6	0.00	0.38	0.00	0	0	0	0	0.00	0.0	3.485	0.827	0	0	0	0			
P 461R	461	ABC	Regulator	7.56Y	126.0	-0.38	0.00	0.00	0	0	0	0	0.00	0.0	3.485	0.000	0	0	0	0			
4641	4642	A	OKOGUARD M	7.54Y	125.6	0.02	0.38	7.96	4	60	3	100	0.01	0.0	2.371	0.255	60	4	28	28			
4640	4638	A	OKOGUARD M	7.54Y	125.6	0.01	0.36	6.02	3	45	2	100	0.00	0.0	2.143	0.121	45	3	12	12			

Balanced Voltage Drop Report  
Source: REID VILLAGE

Detail

Database: D:\MILSOFT\WINTER 2007-2008 LRP MODEL\INITIAL MODEL - ACTUAL JANUARY 2002 LOADS.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-		Cons On	Cons Thru
----- Feeder NO.		2 Beginning with Node Element RV2																		
RV2	REID VILLAGE	ABC	Node	7.56Y	126.0	0.00	0.00	56.62	0	1284	-8	-100	0.00	0.0	0.000	0.000	0	0	0	360
46044	RV2	ABC	336ACSR	7.56Y	126.0	0.01	0.01	56.62	7	1284	-8	-100	0.08	0.0	0.026	0.026	0	0	0	360
46045	46044	ABC	336ACSR	7.56Y	126.0	0.01	0.02	56.62	7	1284	-8	-100	0.09	0.0	0.058	0.032	0	0	0	360
4604	46045	ABC	4ACSR	7.52Y	125.3	0.71	0.72	56.62	28	1284	-8	-100	7.04	0.5	0.377	0.318	100	24	29	360
4603S	4604	C	35V4E	7.52Y	125.3	0.00	0.72	11.64	33	85	21	97	0.00	0.0	0.377	0.000	0	0	0	31
4603	4603S	C	4ACSR	7.51Y	125.2	0.10	0.83	11.64	6	85	21	97	0.04	0.1	0.738	0.362	85	21	31	31
4601	4604	ABC	4ACSR	7.50Y	125.0	0.27	0.99	48.51	24	1092	-56	-100	2.38	0.2	0.516	0.139	22	5	12	300
4602S	4601	ABC	50V4E	7.50Y	125.0	-0.00	0.99	17.36	35	379	93	97	0.00	0.0	0.516	0.000	0	0	0	117
4602	4602S	ABC	4ACSR	7.49Y	124.8	0.19	1.18	17.36	9	379	93	97	0.51	0.1	0.810	0.295	103	25	36	117
4608	4602	ABC	4ACSR	7.48Y	124.6	0.23	1.41	12.63	6	276	68	97	0.49	0.2	1.230	0.420	0	0	0	81
C 4606S	4608	A	25E	7.48Y	124.6	-0.00	1.41	27.25	109	198	49	97	0.00	0.0	1.230	0.000	0	0	0	60
4606	4606S	A	4ACSR	7.46Y	124.3	0.24	1.65	27.25	13	198	49	97	0.31	0.2	1.465	0.235	91	22	26	60
4607	4606	A	4ACSR	7.45Y	124.1	0.21	1.86	14.77	7	107	26	97	0.11	0.1	2.036	0.571	107	26	34	34
4605S	4608	B	25E	7.48Y	124.6	0.00	1.41	10.65	43	77	19	97	0.00	0.0	1.230	0.000	0	0	0	21
4605	4605S	B	4ACSR	7.47Y	124.5	0.09	1.50	10.65	5	77	19	97	0.03	0.0	1.565	0.335	77	19	21	21
460	4601	ABC	4ACSR	7.49Y	124.9	0.14	1.13	31.37	16	689	-156	-98	0.87	0.1	0.646	0.130	71	30	12	171
457S	460	ABC	50L	7.49Y	124.9	0.00	1.13	16.65	33	365	83	98	0.00	0.0	0.646	0.000	0	0	0	107
457	457S	ABC	4ACSR	7.47Y	124.5	0.33	1.46	16.65	8	365	83	98	0.91	0.3	1.132	0.486	35	9	11	107
4572S	457	C	25V4E	7.47Y	124.5	0.00	1.46	6.68	27	49	12	97	0.00	0.0	1.132	0.000	0	0	0	15
4572	4572S	C	4ACSR	7.47Y	124.4	0.09	1.55	6.68	3	49	12	97	0.02	0.0	1.669	0.537	48	12	15	15
4571	457	ABC	4ACSR	7.46Y	124.4	0.14	1.60	12.80	6	280	62	98	0.29	0.1	1.379	0.248	6	1	3	81
4573S	4571	B	25V4E	7.46Y	124.4	0.00	1.60	15.00	60	108	29	97	0.00	0.0	1.379	0.000	0	0	0	29
4573	4573S	B	4ACSR	7.46Y	124.3	0.15	1.75	15.00	7	108	29	97	0.08	0.1	1.776	0.397	108	29	29	29
4579	4571	ABC	4ACSR	7.46Y	124.4	0.01	1.61	7.53	4	166	32	98	0.02	0.0	1.424	0.045	10	2	3	49
45793	4579	ABC	4ACSR	7.46Y	124.4	0.01	1.63	5.90	3	130	25	98	0.01	0.0	1.477	0.053	0	0	1	38
45791	45793	C	OKOGUARD M	7.46Y	124.4	0.01	1.64	1.84	1	14	0	100	0.00	0.0	2.039	0.562	14	3	4	4
4575	45793	B	4ACSR	7.46Y	124.3	0.03	1.66	15.88	8	116	25	98	0.03	0.0	1.519	0.042	0	0	1	33
4576S	4575	B	25V4E	7.46Y	124.3	-0.00	1.66	9.88	40	72	14	98	0.00	0.0	1.519	0.000	0	0	0	19
4576	4576S	B	4ACSR	7.46Y	124.3	0.05	1.70	9.88	5	72	14	98	0.03	0.0	1.615	0.096	0	0	0	19
4578	4576	B	OKOGUARD M	7.46Y	124.3	0.02	1.72	4.78	3	35	7	98	0.00	0.0	1.986	0.371	35	9	9	9
4577	4576	B	OKOGUARD M	7.46Y	124.3	0.02	1.72	5.10	3	37	7	98	0.00	0.0	1.987	0.372	37	9	10	10
4574S	4575	B	25V4E	7.46Y	124.3	-0.00	1.66	5.94	24	43	11	97	0.00	0.0	1.519	0.000	0	0	0	13
4574	4574S	B	4ACSR	7.46Y	124.3	0.05	1.71	5.94	3	43	11	97	0.01	0.0	1.852	0.333	43	11	13	13
45792	4579	C	OKOGUARD M	7.46Y	124.4	0.02	1.63	3.55	2	26	4	99	0.00	0.0	1.867	0.443	26	6	8	8
P 4615	460	ABC	1/OACSR	7.49Y	124.9	0.00	1.13	16.40	5	252	-269	-68	0.01	0.0	0.661	0.016	25	6	4	52
P 46140C	4615	ABC	Capacitor	7.49Y	124.9	-0.00	1.13	15.48	0	210	-278	-60	0.00	0.0	0.661	0.000	0	0	0	39
46140	46140C	ABC	1/OACSR	7.49Y	124.8	0.07	1.20	9.56	3	210	47	98	0.11	0.1	1.037	0.375	0	0	0	39
46143S	46140	ABC	50L	7.49Y	124.8	0.00	1.20	3.55	7	77	19	97	0.00	0.0	1.037	0.000	0	0	0	21
46143	46143S	ABC	1/OACSR	7.49Y	124.8	0.02	1.22	3.55	1	77	19	97	0.01	0.0	1.357	0.320	37	9	13	21
46144	46143	ABC	OKOGUARD M	7.49Y	124.8	0.00	1.22	1.87	1	41	10	97	0.00	0.0	1.368	0.011	0	0	0	8
46145	46144	ABC	1/OACSR	7.49Y	124.8	0.00	1.22	1.87	1	41	10	97	0.00	0.0	1.504	0.136	41	10	8	8
4614	46140	ABC	1/OACSR	7.49Y	124.8	0.03	1.24	6.02	2	132	28	98	0.03	0.0	1.345	0.309	28	7	4	18
46142	4614	ABC	336ACSR	7.49Y	124.8	0.00	1.24	4.73	1	104	21	98	0.00	0.0	1.466	0.121	0	0	0	14
46141	46142	ABC	336ACSR	7.49Y	124.8	0.00	1.24	4.73	1	104	21	98	0.00	0.0	1.542	0.076	31	8	5	14
4612	46141	A	OKOGUARD M	7.48Y	124.7	0.09	1.33	9.94	5	73	14	98	0.03	0.0	2.356	0.814	73	18	9	9
4616	4615	C	OKOGUARD M	7.49Y	124.9	0.01	1.14	2.42	1	18	3	99	0.00	0.0	0.981	0.320	18	4	9	9

Balanced Voltage Drop Report  
Source: SIDEVIEW

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Case:

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
----- Feeder NO. 3 Beginning with Node Element SV3 -----																				
SV3	SIDEVIEW	ABC	Node		7.56Y 126.0	0.00	0.00	61.27	0	1363	272	98	0.00	0.0	0.000	0.000	0	0	0	334
167	SV3	ABC	4/OACSR		7.54Y 125.6	0.37	0.37	61.27	13	1363	272	98	3.23	0.2	0.507	0.507	20	3	8	334
176	167	ABC	6ACWC		7.37Y 122.9	2.74	3.11	60.38	30	1340	264	98	27.60	2.1	1.620	1.113	115	20	31	326
201S	176	C	50L		7.37Y 122.9	-0.00	3.11	23.61	47	171	35	98	0.00	0.0	1.620	0.000	0	0	0	58
201	201S	C	4ACSR		7.31Y 121.9	0.99	4.10	23.61	12	171	35	98	1.13	0.7	2.686	1.066	67	11	23	58
2011	201	C	4ACSR		7.29Y 121.5	0.44	4.54	14.42	7	103	23	98	0.34	0.3	3.315	0.629	4	1	1	35
2013	2011	C	4ACSR		7.28Y 121.3	0.17	4.70	6.33	3	45	8	98	0.06	0.1	3.852	0.538	0	0	0	20
207S	2013	C	35H		7.28Y 121.3	-0.00	4.70	6.33	18	45	8	98	0.00	0.0	3.852	0.000	0	0	0	20
207	207S	C	4ACSR		7.26Y 121.0	0.30	5.01	6.33	3	45	8	98	0.08	0.2	5.354	1.502	31	5	11	20
210	207	C	4ACSR		7.26Y 120.9	0.06	5.07	2.00	1	14	2	99	0.00	0.0	6.685	1.331	14	2	9	9
2012	2011	C	4ACSR		7.28Y 121.4	0.11	4.65	7.57	4	53	14	97	0.03	0.1	3.898	0.583	53	14	14	14
202	176	ABC	6ACWC		7.31Y 121.9	1.01	4.12	47.28	24	1027	200	98	8.10	0.8	2.135	0.515	48	8	9	237
2022	202	ABC	6ACWC		7.23Y 120.5	1.40	5.52	42.04	21	905	178	98	9.88	1.1	2.946	0.811	65	11	15	208
2023	2022	ABC	6ACWC		7.12Y 118.7	1.77	7.29	39.03	20	830	163	98	11.60	1.4	4.052	1.106	60	10	17	193
211S	2023	ABC	50L		7.12Y 118.7	0.00	7.29	19.42	39	409	72	98	0.00	0.0	4.052	0.000	0	0	0	108
211	211S	ABC	6ACWC		7.08Y 118.1	0.64	7.93	19.42	10	409	72	98	2.02	0.5	4.905	0.854	72	12	19	108
L 2111	211	ABC	6ACWC		7.06Y 117.6	0.43	8.37	15.96	8	334	58	99	1.08	0.3	5.645	0.740	92	16	22	89 L
L 208S	2111	B	35L		7.06Y 117.6	0.00	8.37	34.75	99	242	42	99	0.00	0.0	5.645	0.000	0	0	0	67 L
L 208	208S	B	4ACSR		6.98Y 116.3	1.35	9.72	34.75	17	242	42	99	2.47	1.0	6.518	0.873	39	7	14	67 L
L 2081	208	B	4ACSR		6.94Y 115.7	0.59	10.31	29.05	14	200	34	99	0.64	0.3	7.362	0.844	199	34	53	53 L
203S	2023	ABC	50V4E		7.12Y 118.7	0.00	7.29	16.81	34	351	78	98	0.00	0.0	4.052	0.000	0	0	0	68
203	203S	ABC	6ACWC		7.10Y 118.4	0.31	7.60	16.81	8	351	78	98	0.86	0.2	4.520	0.468	50	9	14	68
L 204	203	A	4ACSR		7.00Y 116.7	1.73	9.34	43.33	21	300	69	97	3.80	1.3	5.431	0.911	67	12	18	54 L
L 2041	204	A	4ACSR		6.95Y 115.8	0.84	10.18	33.61	17	229	55	97	1.35	0.6	6.055	0.624	89	15	20	36 L
L 453	2041	A	4ACSR		6.94Y 115.6	0.23	10.41	20.76	10	139	39	96	0.17	0.1	6.495	0.441	139	39	16	16 L
2021	202	C	4ACSR		7.30Y 121.7	0.20	4.31	9.05	4	65	11	99	0.07	0.1	3.025	0.890				

Balanced Voltage Drop Report  
Source: TRAPP

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
-----																				
----- Feeder NO.		3	Beginning with Node Element TR3																-----	
TR3	TRAPP	ABC	Node	7.56Y	126.0	0.00	0.00	21.79	0	494	16	100	0.00	0.0	0.000	0.000	0	0	0	147
3380	TR3	ABC	336ACSR	7.56Y	126.0	0.02	0.02	21.79	3	494	16	100	0.07	0.0	0.165	0.165	0	0	0	147
338	3380	ABC	336ACSR	7.56Y	125.9	0.03	0.05	21.79	3	494	16	100	0.13	0.0	0.459	0.295	0	0	1	147
340C	338	ABC	Capacitor	7.56Y	125.9	-0.00	0.05	21.79	0	494	15	100	0.00	0.0	0.459	0.000	0	0	0	146
340	340C	ABC	1/OACSR	7.54Y	125.7	0.28	0.34	23.19	7	494	181	94	0.86	0.2	1.154	0.695	164	59	26	146
351	340	ABC	1/OACSR	7.53Y	125.5	0.12	0.46	13.69	4	289	111	93	0.24	0.1	1.571	0.417	7	2	6	101
357S	351	A	50V4E	7.53Y	125.5	0.00	0.46	15.62	31	113	32	96	0.00	0.0	1.571	0.000	0	0	0	57
357	357S	A	4ACSR	7.49Y	124.9	0.63	1.08	15.62	8	113	32	96	0.46	0.4	2.582	1.011	46	12	23	57
3570	357	A	4ACSR	7.47Y	124.5	0.39	1.48	9.25	5	66	20	96	0.17	0.3	3.627	1.044	26	6	11	34
364S	3570	A	25L	7.47Y	124.5	-0.00	1.48	5.73	23	41	13	95	0.00	0.0	3.627	0.000	0	0	0	23
364	364S	A	4ACSR	7.46Y	124.3	0.24	1.72	5.73	3	41	13	95	0.05	0.1	5.281	1.655	41	13	23	23
350	351	ABC	1/OACSR	7.52Y	125.4	0.15	0.61	8.19	2	168	77	91	0.16	0.1	2.600	1.029	61	15	16	38
3502S	350	C	35H	7.52Y	125.4	0.00	0.61	5.48	16	40	10	97	0.00	0.0	2.600	0.000	0	0	0	13
3502	3502S	C	4ACSR	7.51Y	125.2	0.18	0.79	5.48	3	40	10	97	0.04	0.1	3.936	1.336	40	10	13	13
P 3501	350	ABC	1/OACSR	7.52Y	125.3	0.07	0.68	3.73	1	66	52	79	0.04	0.1	3.447	0.846	0	0	0	9 P
P 359	3501	ABC	1/OACSR	7.52Y	125.3	-0.00	0.68	0.00	0	0	0	0	0.00	0.0	4.020	0.573	0	0	0	1 P
P 336	359	C	4ACSR	7.52Y	125.3	0.00	0.68	0.00	0	0	0	0	0.00	0.0	5.625	1.606	0	0	1	1 P
P 335	3501	ABC	1/OACSR	7.51Y	125.2	0.10	0.78	3.73	1	66	51	79	0.05	0.1	4.718	1.272	12	3	4	8 P
P 33401	335	ABC	1/OACSR	7.51Y	125.2	0.00	0.78	0.00	0	0	0	0	0.00	0.0	5.083	0.364	0	0	0	0 P
P 329	335	ABC	1/OACSR	7.51Y	125.2	0.02	0.80	3.25	1	55	49	75	0.01	0.0	5.301	0.583	55	49	4	4 P
3371	340	ABC	4ACSR	7.54Y	125.7	0.00	0.34	1.80	1	40	10	97	0.00	0.0	1.212	0.059	12	3	6	19
337	3371	A	4ACSR	7.53Y	125.6	0.10	0.44	3.72	2	27	7	97	0.01	0.1	2.342	1.129	27	7	13	13



Balanced Voltage Drop Report  
Source: VAN METER

Database: D:\MILSOFT\WINTER 2007-2008 LRP MODEL\INITIAL MODEL - ACTUAL JANUARY 2002 LOADS.WM\

Title:

Case:

01/22/2003 13:15

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			
----- Feeder NO.		1	Beginning with Node Element VM1																				
VM1	VAN METER	ABC	Node	7.56Y	126.0	0.00	0.00	9.84	0	221	33	99	0.00	0.0	0.000	0.000	0	0	0	58			
27	VM1	ABC	4ACSR	7.56Y	125.9	0.08	0.08	9.84	5	221	33	99	0.13	0.1	0.185	0.185	0	0	0	58			
27000	27	B	4ACSR	7.50Y	124.9	1.00	1.08	29.51	15	221	33	99	1.20	0.5	1.379	1.194	180	26	37	58			
28	27000	B	4ACSR	7.48Y	124.7	0.20	1.27	5.30	3	39	6	99	0.05	0.1	2.386	1.007	18	3	6	21			
31S	28	B	15H	7.48Y	124.7	-0.00	1.27	2.88	19	21	3	99	0.00	0.0	2.386	0.000	0	0	0	13			
31	31S	B	4ACSR	7.47Y	124.6	0.15	1.42	2.88	1	21	3	99	0.02	0.1	3.601	1.215	6	1	5	13			
29	31	B	4ACSR	7.47Y	124.5	0.05	1.47	2.09	1	15	2	99	0.00	0.0	4.593	0.992	15	2	8	8			
P 30	28	B	4ACSR	7.48Y	124.7	-0.00	1.27	0.00	0	0	0	0	0.00	0.0	3.679	1.293	0	0	2	2 P			

Balanced Voltage Drop Report  
Source: FRENCHBURG

Detail

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.WM\

Title:

Case:

01/22/2003 10:57

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
----- Feeder NO. 3 Beginning with Node Element FB3 -----																				
<b>FB3</b>	<b>FRENCHBURG</b>	ABC	Node	7.56Y	126.0	0.00	0.00	112.91	0	2506	528	98	0.00	0.0	0.000	0.000	0	0	0	512
1073S	FB3	ABC	U	7.56Y	126.0	0.00	0.00	112.91	0	2506	528	98	0.00	0.0	0.000	0.000	0	0	0	512
1073	1073S	ABC	1/0CU	7.51Y	125.1	0.87	0.87	112.91	43	2506	528	98	14.42	0.6	0.628	0.628	60	25	30	512
10732C	1073	ABC	Capacitor	7.51Y	125.1	0.00	0.87	108.92	0	2407	475	98	0.00	0.0	0.628	0.000	0	0	0	472
10732	10732C	ABC	1/0CU	7.43Y	123.9	1.22	2.09	112.63	43	2407	801	95	17.98	0.7	1.471	0.843	239	106	106	472
1071	10732	ABC	2ACSR	7.35Y	122.4	1.48	3.57	101.00	65	2150	674	95	22.39	1.0	2.034	0.563	454	209	82	366
C 10711S	1071	ABC	70V4E	7.35Y	122.4	-0.00	3.57	78.66	112	1673	452	97	0.00	0.0	2.034	0.000	0	0	0	284
10711	10711S	ABC	2ACSR	7.33Y	122.1	0.33	3.91	78.66	50	1673	452	97	4.17	0.2	2.183	0.149	86	60	1	284
1070S	10711	C	U	7.33Y	122.1	0.00	3.91	6.90	0	47	19	93	0.00	0.0	2.183	0.000	0	0	0	25
1070	1070S	C	4ACSR	7.31Y	121.9	0.21	4.11	6.90	6	47	19	93	0.05	0.1	3.358	1.175	47	19	25	25
P 1067C	10711	ABC	Capacitor	7.33Y	122.1	-0.00	3.91	-7.07	0	0	-155	0	0.00	0.0	2.183	0.000	0	0	0	0
1067	10711	ABC	2ACSR	7.25Y	120.8	1.30	5.21	73.88	47	1536	525	95	14.08	0.9	2.871	0.688	388	181	78	258
1113	1067	ABC	6ACWC	7.16Y	119.3	1.47	6.68	45.32	38	950	260	96	8.22	0.9	4.170	1.298	794	195	18	81
748S	1113	C	35L	7.16Y	119.3	0.00	6.68	22.47	64	148	62	92	0.00	0.0	4.170	0.000	0	0	0	63
L 748	748S	C	4ACSR	7.04Y	117.3	2.03	8.71	22.47	19	148	62	92	2.27	1.5	6.111	1.942	26	11	11	63
L 74801	748	C	4ACSR	7.01Y	116.8	0.53	9.24	15.79	13	102	43	92	0.44	0.4	6.799	0.688	7	3	4	43
L 749	74801	C	6ACWC	6.95Y	115.9	0.90	10.15	14.70	12	95	40	92	0.67	0.7	8.073	1.273	9	4	6	39
L 74901	749	C	6ACWC	6.94Y	115.7	0.13	10.28	5.01	4	32	13	93	0.02	0.1	9.095	1.022	32	13	13	13
L 74900	749	C	6ACWC	6.93Y	115.6	0.28	10.43	8.31	7	53	22	92	0.08	0.2	9.409	1.336	53	22	20	20
L 74800	748	C	4ACSR	7.03Y	117.1	0.16	8.87	2.73	2	18	7	93	0.02	0.1	8.423	2.312	18	7	9	9
<b>10661</b>	<b>1067</b>	<b>ABC</b>	<b>2ACSR</b>	<b>7.24Y</b>	<b>120.7</b>	0.13	5.33	9.16	6	184	77	92	0.17	0.1	3.385	0.514	39	16	29	99
10663	10661	ABC	2ACSR	7.23Y	120.6	0.11	5.44	5.15	3	103	43	92	0.08	0.1	4.194	0.809	31	13	20	51
1066	10663	ABC	2ACSR	7.23Y	120.5	0.03	5.47	3.61	2	72	30	92	0.02	0.0	4.580	0.386	32	13	11	31
10669S	1066	ABC	35L	7.23Y	120.5	-0.00	5.47	2.02	6	40	17	92	0.00	0.0	4.580	0.000	0	0	0	20
10669	10669S	ABC	2ACSR	7.23Y	120.5	0.03	5.50	2.02	1	40	17	92	0.01	0.0	5.141	0.561	7	3	4	20
733	10669	ABC	2ACSR	7.23Y	120.5	0.03	5.53	1.65	1	33	14	92	0.01	0.0	5.895	0.754	16	7	6	16
73300	733	ABC	2ACSR	7.23Y	120.5	0.01	5.55	0.86	1	17	7	92	0.00	0.0	6.996	1.101	17	7	10	10
10662	10661	C	2ACSR	7.23Y	120.6	0.11	5.45	6.22	4	42	17	93	0.02	0.1	4.380	0.995	42	17	19	19
10731	1073	C	1/0CU	7.51Y	125.1	0.03	0.91	3.52	1	24	10	92	0.00	0.0	1.550	0.923	24	10	10	10
----- Feeder NO. 4 Beginning with Node Element FB4 -----																				
<b>FB4</b>	<b>FRENCHBURG</b>	ABC	Node	7.56Y	126.0	0.00	0.00	113.72	0	2405	931	93	0.00	0.0	0.000	0.000	0	0	0	1588
FB4 AUTO	FB4	ABC	Transforme	14.99Y	125.0	1.05	1.05	113.72	49	2405	931	93	4.80	0.2	0.000	0.000	0	0	0	1588
1080	FB4 AUTO	ABC	336ACSR	14.99Y	124.9	0.03	1.08	56.86	13	2401	883	94	0.38	0.0	0.131	0.131	0	0	0	1588
1075	1080	ABC	336ACSR	14.96Y	124.7	0.25	1.33	56.86	13	2400	882	94	3.05	0.1	1.179	1.048	24	10	15	1588
10752	1075	ABC	336ACSR	14.95Y	124.6	0.06	1.39	56.01	13	2362	861	94	0.70	0.0	1.423	0.245	1	0	1	1563
10754	10752	ABC	336ACSR	14.93Y	124.4	0.16	1.55	55.36	13	2334	848	94	1.94	0.1	2.128	0.705	28	12	15	1551
1076S	10754	C	25V4E	14.93Y	124.4	-0.00	1.55	2.60	10	36	15	92	0.00	0.0	2.128	0.000	0	0	0	21
1076	1076S	C	4ACSR	14.92Y	124.3	0.11	1.66	2.60	2	36	15	92	0.03	0.1	3.842	1.714	2	1	3	21
10762	1076	C	4ACSR	14.92Y	124.3	0.01	1.67	0.72	1	10	4	93	0.00	0.0	4.954	1.112	10	4	5	5
10761	1076	C	6ACWC	14.92Y	124.3	0.02	1.69	1.76	1	24	10	92	0.00	0.0	4.905	1.063	24	10	13	13
1077	10754	ABC	1/0ACSR	14.87Y	123.9	0.56	2.12	53.82	27	2269	817	94	8.92	0.4	3.125	0.998	14	6	7	1515
10771	1077	ABC	1/0ACSR	14.83Y	123.6	0.27	2.38	53.49	27	2246	804	94	4.25	0.2	3.606	0.480	8	3	5	1508
10772S	10771	ABC	VWVE	14.83Y	123.6	-0.00	2.38	53.30	0	2234	797	94	0.00	0.0	3.606	0.000	0	0	0	1503
10772	10772S	ABC	1/0ACSR	14.79Y	123.3	0.35	2.73	53.30	27	2234	797	94	5.45	0.2	4.225	0.619	1	0	1	1503
1062S	10772	B	25V4E	14.79Y	123.3	-0.00	2.73	6.28	25	86	36	92	0.00	0.0	4.225	0.000	0	0	0	31
1062	1062S	B	4ACSR	14.77Y	123.1	0.16	2.89	6.28	5	86	36	92	0.09	0.1	5.429	1.205	33	14	12	31
10621	1062	B	4ACSR	14.77Y	123.0	0.07	2.96	3.87	3	53	22	92	0.02	0.0	6.852	1.422	53	22	19	19
1063R	10772	ABC	Regulator	15.12Y	126.0	-2.73	0.00	51.18	51	2141	757	94	0.00	0.0	4.225	0.000	0	0	0	1471
1063	1063R	ABC	2ACSR	15.01Y	125.0	0.96	0.96	50.07	32	2141	757	94	15.35	0.7	5.514	1.289	0	0	2	1471
10631S	1063	A	25L	15.01Y	125.0	-0.00	0.96	2.11	8	29	12	92	0.00	0.0	5.514	0.000	0	0	0	28
10631	10631S	A	2ACSR	15.00Y	125.0	0.02	0.97	2.11	1	29	12	92	0.00	0.0	6.424	0.911	29	12	28	28

Balanced Voltage Drop Report  
Source: FRENCHBURG

Detail

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.WM\

Title:

Case:

01/22/2003 10:57

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
10632	1063	ABC	2ACSR	14.95Y	124.6	0.45	1.41	49.37	32	2097	736	94	7.19	0.3	6.134	0.621	0	0	0	1441
10641	10632	A	4ACSR	14.93Y	124.4	0.16	1.57	13.33	11	184	77	92	0.22	0.1	6.611	0.477	10	4	6	173
1064	10641	A	4ACSR	14.90Y	124.2	0.25	1.81	12.57	11	173	73	92	0.32	0.2	7.387	0.776	4	2	8	167
1055	1064	A	4ACSR	14.87Y	123.9	0.27	2.08	12.25	10	168	70	92	0.31	0.2	8.375	0.988	46	19	37	159
10552	1055	A	4ACSR	14.86Y	123.8	0.09	2.17	8.24	7	113	47	92	0.08	0.1	8.835	0.460	13	5	22	105
1056S	10552	A	U	14.86Y	123.8	-0.00	2.17	7.31	0	100	42	92	0.00	0.0	8.835	0.000	0	0	0	83
1056	1056S	A	4ACSR	14.83Y	123.5	0.29	2.46	7.31	6	100	42	92	0.22	0.2	10.432	1.597	7	3	7	83
1051S	1056	A	25L	14.83Y	123.5	-0.00	2.46	3.20	13	44	18	93	0.00	0.0	10.432	0.000	0	0	0	52
1051	1051S	A	4ACSR	14.82Y	123.5	0.07	2.53	3.20	3	44	18	93	0.02	0.1	11.420	0.988	9	4	21	52
10512	1051	A	4ACSR	14.81Y	123.5	0.02	2.55	2.04	2	28	12	92	0.00	0.0	12.098	0.678	28	12	20	20
10511	1051	A	4ACSR	14.82Y	123.5	0.01	2.53	0.50	0	7	3	92	0.00	0.0	12.220	0.801	7	3	11	11
1050S	1056	A	25L	14.83Y	123.5	-0.00	2.46	3.64	15	50	21	92	0.00	0.0	10.432	0.000	0	0	0	24
1050	1050S	A	4ACSR	14.82Y	123.5	0.06	2.52	3.64	3	50	21	92	0.02	0.0	11.483	1.051	36	15	17	24
P 10502	1050	A	4ACSR	14.82Y	123.5	0.00	2.52	0.00	0	0	0	0	0.00	0.0	12.085	0.602	0	0	0	0 P
105021S	10502	A	U	14.82Y	123.5	0.00	2.52	0.00	0	0	0	0	0.00	0.0	12.085	0.000	0	0	0	0
P 105021	105021S	A	4ACSR	14.82Y	123.5	0.00	2.52	0.00	0	0	0	0	0.00	0.0	12.623	0.538	0	0	0	0 P
P 10503	105021	A	4ACSR	14.82Y	123.5	0.00	2.52	0.00	0	0	0	0	0.00	0.0	13.884	1.261	0	0	0	0 P
P 10504	10503	A	4ACSR	14.82Y	123.5	0.00	2.52	0.00	0	0	0	0	0.00	0.0	15.473	1.589	0	0	0	0 P
10501	1050	A	4ACSR	14.82Y	123.5	0.02	2.54	1.02	1	14	6	92	0.00	0.0	12.754	1.270	14	6	7	7
10551	1055	A	4ACSR	14.87Y	123.9	0.00	2.08	0.64	1	9	4	91	0.00	0.0	8.756	0.381	9	4	17	17
1065	10632	ABC	1/OACSR	14.94Y	124.5	0.10	1.51	44.93	22	1906	655	95	1.32	0.1	6.345	0.211	6	2	3	1268
10652	1065	ABC	1/OACSR	14.86Y	123.8	0.68	2.19	44.75	22	1897	651	95	8.99	0.5	7.814	1.468	32	15	15	1259
10653	10652	ABC	4/OACSR	14.85Y	123.7	0.09	2.28	43.96	15	1856	629	95	1.01	0.1	8.117	0.304	0	0	0	1244
1133	10653	ABC	2ACSR	14.81Y	123.4	0.32	2.59	43.96	28	1855	627	95	4.46	0.2	8.607	0.489	18	7	6	1244
11331	1133	ABC	2ACSR	14.79Y	123.2	0.18	2.78	43.54	28	1833	617	95	2.53	0.1	8.895	0.288	57	24	6	1238
11331C	11331	ABC	Capacitor	14.79Y	123.2	0.00	2.78	41.92	0	1764	588	95	0.00	0.0	8.895	0.000	0	0	0	1228
11333	11331C	ABC	2ACSR	14.75Y	122.9	0.29	3.07	43.18	28	1764	746	92	3.97	0.2	9.347	0.452	17	7	10	1228
11341	11333	ABC	2ACSR	14.74Y	122.9	0.08	3.14	42.77	27	1743	737	92	1.06	0.1	9.470	0.122	0	0	0	1218
1135S	11341	ABC	50V4E	14.74Y	122.9	-0.00	3.14	25.09	50	1022	433	92	0.00	0.0	9.470	0.000	0	0	0	576
1135	1135S	ABC	336ACSR	14.74Y	122.8	0.03	3.17	25.09	6	1022	433	92	0.13	0.0	9.700	0.230	29	12	12	576
11359	1135	ABC	336ACSR	14.73Y	122.7	0.09	3.26	24.39	6	993	420	92	0.46	0.0	10.567	0.867	34	14	18	564
11357	11359	ABC	336ACSR	14.73Y	122.7	0.01	3.28	23.10	5	940	397	92	0.07	0.0	10.707	0.140	4	2	5	537
11352S	11357	A	U	14.73Y	122.7	0.00	3.28	5.75	0	78	33	92	0.00	0.0	10.707	0.000	0	0	0	69
11352	11352S	A	4ACSR	14.72Y	122.7	0.07	3.34	5.75	5	78	33	92	0.03	0.0	11.613	0.906	78	33	69	69
11358	11357	ABC	336ACSR	14.72Y	122.7	0.02	3.30	21.07	5	857	363	92	0.08	0.0	10.907	0.200	12	5	7	463
11353S	11358	B	25V4E	14.72Y	122.7	0.00	3.30	0.00	0	0	0	0	0.00	0.0	10.907	0.000	0	0	0	0
11354	11358	C	4ACSR	14.62Y	121.8	0.87	4.17	57.36	48	778	329	92	5.20	0.7	11.516	0.609	35	15	17	402
11355S	11354	C	25L	14.62Y	121.8	-0.00	4.17	5.19	21	70	29	92	0.00	0.0	11.516	0.000	0	0	0	83
11355	11355S	C	4ACSR	14.61Y	121.8	0.05	4.21	5.19	4	70	29	92	0.02	0.0	12.263	0.747	70	29	83	83
11356	11354	C	4ACSR	14.47Y	120.6	1.24	5.40	49.59	42	668	283	92	6.35	1.0	12.529	1.013	45	19	25	302
1137S	11356	C	U	14.47Y	120.6	-0.00	5.40	5.81	0	78	32	93	0.00	0.0	12.529	0.000	0	0	0	54
1137	1137S	C	4ACSR	14.46Y	120.5	0.08	5.48	5.81	5	78	32	93	0.04	0.1	13.177	0.648	30	13	16	54
11372	1137	C	4ACSR	14.46Y	120.5	0.02	5.50	2.46	2	33	14	92	0.01	0.0	13.657	0.480	16	7	10	31
11374	11372	C	4ACSR	14.46Y	120.5	0.00	5.51	0.65	1	9	4	91	0.00	0.0	14.209	0.552	9	4	6	6
11373	11372	C	4ACSR	14.46Y	120.5	0.00	5.51	0.64	1	9	4	91	0.00	0.0	14.251	0.594	9	4	15	15
11371	1137	C	4ACSR	14.46Y	120.5	0.02	5.50	1.11	1	15	6	93	0.00	0.0	14.299	1.122	15	6	7	7
1140	11356	C	4ACSR	14.43Y	120.3	0.34	5.75	40.40	34	539	228	92	1.45	0.3	12.868	0.339	17	7	6	223
11401S	1140	C	25L	14.43Y	120.3	-0.00	5.75	4.01	16	53	22	92	0.00	0.0	12.868	0.000	0	0	0	28
11401	11401S	C	4ACSR	14.42Y	120.2	0.05	5.79	4.01	3	53	22	92	0.01	0.0	13.806	0.938	53	22	28	28
11402R	1140	C	Regulator	15.12Y	126.0	-5.75	0.00	35.10	35	466	197	92	0.00	0.0	12.868	0.000	0	0	0	189
11402S	11402R	C	50V4E	15.12Y	126.0	-0.00	0.00	33.49	67	466	197	92	0.00	0.0	12.868	0.000	0	0	0	189
11402	11402S	C	4ACSR	15.06Y	125.5	0.47	0.47	33.49	28	466	197	92	1.64	0.4	13.435	0.567	24	10	8	189

Balanced Voltage Drop Report  
Source: FRENCHBURG

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.WM\

Title:

Case:

01/22/2003 10:57

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
11450	11402	C	4ACSR	15.05Y	125.4	0.13	0.60	31.77	27	441	186	92	0.43	0.1	13.599	0.164	13	5	7	181
1141S	11450	C	25V4E	15.05Y	125.4	0.00	0.60	10.02	40	139	58	92	0.00	0.0	13.599	0.000	0	0	0	59
1141	1141S	C	6ACWC	15.03Y	125.2	0.15	0.75	10.02	8	139	58	92	0.13	0.1	14.365	0.766	64	27	26	59
11412	1141	C	6ACWC	15.02Y	125.2	0.04	0.79	3.30	3	46	19	92	0.01	0.0	14.994	0.629	19	8	12	23
11414	11412	C	6ACWC	15.02Y	125.2	0.02	0.82	1.65	1	23	10	92	0.00	0.0	15.739	0.745	11	5	6	8
11415	11414	C	6ACWC	15.02Y	125.2	0.01	0.83	0.83	1	11	5	91	0.00	0.0	16.768	1.029	11	5	2	2
11413	11412	C	6ACWC	15.02Y	125.2	0.00	0.80	0.26	0	4	2	89	0.00	0.0	15.651	0.657	4	2	3	3
11411	1141	C	6ACWC	15.03Y	125.2	0.03	0.78	2.08	2	29	12	92	0.00	0.0	15.538	1.173	29	12	10	10
11457	11450	C	6ACWC	15.04Y	125.3	0.09	0.69	20.83	18	288	123	92	0.20	0.1	13.775	0.176	4	2	1	115
1142S	11457	C	35V4E	15.04Y	125.3	0.00	0.69	5.66	16	79	33	92	0.00	0.0	13.775	0.000	0	0	0	38
1142	1142S	C	6ACWC	15.02Y	125.2	0.10	0.80	5.66	5	79	33	92	0.05	0.1	14.662	0.887	32	13	11	38
1144	1142	C	6ACWC	15.02Y	125.2	0.01	0.81	1.99	2	28	12	92	0.00	0.0	15.187	0.525	26	11	15	16
11443	1144	C	2ACSR	15.02Y	125.2	0.00	0.81	0.10	0	1	1	71	0.00	0.0	15.889	0.702	1	1	1	1
1143	1142	C	4ACSR	15.02Y	125.2	0.02	0.81	1.38	1	19	8	92	0.00	0.0	15.575	0.914	19	8	11	11
11456	11457	C	6ACWC	15.00Y	125.0	0.28	0.98	14.91	13	206	88	92	0.38	0.2	14.746	0.971	94	39	27	76
11451S	11456	C	25V4E	15.00Y	125.0	-0.00	0.98	1.52	6	21	9	92	0.00	0.0	14.746	0.000	0	0	0	21
11451	11451S	C	2ACSR	15.00Y	125.0	0.02	1.00	1.52	1	21	9	92	0.00	0.0	16.042	1.297	21	9	21	21
11454	11456	C	4ACSR	15.00Y	125.0	0.06	1.04	6.64	6	91	40	92	0.04	0.0	15.156	0.410	31	15	2	28
11442S	11454	C	25V4E	15.00Y	125.0	0.00	1.04	1.24	5	17	7	92	0.00	0.0	15.156	0.000	0	0	0	11
11442	11442S	C	6ACWC	14.99Y	124.9	0.02	1.06	1.24	1	17	7	92	0.00	0.0	16.584	1.428	17	7	11	11
P 11441	11442	C	6ACWC	14.99Y	124.9	-0.00	1.06	0.00	0	0	0	0	0.00	0.0	16.919	0.335	0	0	0	0
1145	11454	C	4ACSR	14.99Y	124.9	0.04	1.07	3.08	3	43	18	92	0.01	0.0	16.100	0.944	43	18	15	15
11353	11358	B	4ACSR	14.71Y	122.6	0.09	3.38	4.98	4	68	28	92	0.03	0.0	12.294	1.387	68	28	54	54
11351	11359	A	4ACSR	14.73Y	122.7	0.00	3.27	1.39	1	19	8	92	0.00	0.0	10.825	0.258	19	8	9	9
11342S	11341	C	25L	14.74Y	122.9	0.00	3.14	1.77	7	24	10	92	0.00	0.0	9.470	0.000	0	0	0	20
11342	11342S	C	4ACSR	14.74Y	122.8	0.01	3.16	1.77	1	24	10	92	0.00	0.0	10.012	0.542	24	10	20	20
11343	11341	ABC	336ACSR	14.74Y	122.9	0.00	3.15	17.10	4	697	294	92	0.01	0.0	9.505	0.035	5	2	2	622
113431S	11343	ABC	VWVE	14.74Y	122.9	-0.00	3.15	16.97	0	691	292	92	0.00	0.0	9.505	0.000	0	0	0	620
113431	113431S	ABC	336ACSR	14.74Y	122.9	0.00	3.15	16.97	4	691	292	92	0.01	0.0	9.534	0.030	0	0	0	620
11344S	113431	A	35L	14.74Y	122.9	0.00	3.15	7.36	21	100	42	92	0.00	0.0	9.534	0.000	0	0	0	86
11344	11344S	A	4ACSR	14.73Y	122.8	0.07	3.22	7.36	6	100	42	92	0.04	0.0	10.314	0.780	100	42	86	86
11345	113431	ABC	2ACSR	14.74Y	122.8	0.05	3.20	14.52	9	591	250	92	0.25	0.0	9.786	0.252	7	3	2	534
11346S	11345	A	35L	14.74Y	122.8	0.00	3.20	1.71	5	23	10	92	0.00	0.0	9.786	0.000	0	0	0	22
11346	11346S	A	4ACSR	14.73Y	122.8	0.01	3.22	1.71	1	23	10	92	0.00	0.0	10.318	0.532	23	10	22	22
11347	11345	ABC	2ACSR	14.72Y	122.7	0.10	3.30	13.79	9	561	238	92	0.41	0.1	10.280	0.493	47	21	20	510
11348S	11347	A	35E	14.72Y	122.7	0.00	3.30	6.35	18	86	36	92	0.00	0.0	10.280	0.000	0	0	0	89
11348	11348S	A	4ACSR	14.71Y	122.6	0.10	3.40	6.35	5	86	36	92	0.04	0.1	11.479	1.200	86	36	89	89
11350	11347	C	2ACSR	14.72Y	122.7	0.00	3.30	0.04	0	1	0	100	0.00	0.0	10.677	0.397	1	0	2	2
11349	11347	ABC	2ACSR	14.72Y	122.7	0.04	3.34	10.48	7	427	180	92	0.14	0.0	10.565	0.286	23	11	5	399
1058S	11349	ABC	50E	14.72Y	122.7	-0.00	3.34	9.92	20	404	169	92	0.00	0.0	10.565	0.000	0	0	0	394
1058	1058S	ABC	2ACSR	14.72Y	122.6	0.02	3.37	9.92	6	404	169	92	0.07	0.0	10.717	0.151	3	1	2	394
10582	1058	ABC	2ACSR	14.71Y	122.6	0.01	3.38	8.88	6	362	151	92	0.04	0.0	10.818	0.101	19	8	16	357
1136	10582	B	4ACSR	14.70Y	122.5	0.10	3.48	7.07	6	96	40	92	0.06	0.1	11.617	0.799	53	22	54	108
11361	1136	B	4ACSR	14.70Y	122.5	0.03	3.52	3.19	3	43	18	92	0.01	0.0	12.412	0.795	43	18	54	54
1057	10582	B	4ACSR	14.66Y	122.2	0.43	3.81	18.19	15	247	103	92	0.80	0.3	11.783	0.965	20	8	24	233
10571S	1057	B	25L	14.66Y	122.2	-0.00	3.81	2.68	11	36	15	92	0.00	0.0	11.783	0.000	0	0	0	31
10571	10571S	B	4ACSR	14.66Y	122.2	0.02	3.83	2.68	2	36	15	92	0.00	0.0	12.382	0.599	36	15	31	31
10572	1057	B	4ACSR	14.66Y	122.2	0.03	3.84	14.01	12	190	79	92	0.04	0.0	11.865	0.081	2	1	1	178
10575S	10572	B	25L	14.66Y	122.2	0.00	3.84	2.15	9	29	12	92	0.00	0.0	11.865	0.000	0	0	0	26
10575	10575S	B	4ACSR	14.66Y	122.2	0.01	3.85	2.15	2	29	12	92	0.00	0.0	12.292	0.427	29	12	26	26
10574S	10572	B	25L	14.66Y	122.2	0.00	3.84	5.74	23	78	32	93	0.00	0.0	11.865	0.000	0	0	0	73
10574	10574S	B	4ACSR	14.65Y	122.1	0.07	3.90	5.74	5	78	32	93	0.03	0.0	12.776	0.911	78	32	73	73

Balanced Voltage Drop Report  
Source: FRENCHBURG

Detail

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.WM\

Title:

Case:

01/22/2003 10:57

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	
10573S	10572	B	25L	14.66Y	122.2	0.00	3.84	6.01	24	81	34	92	0.00	0.0	11.865	0.000	0	0	0	78
10573	10573S	B	4ACSR	14.65Y	122.1	0.05	3.89	6.01	5	81	34	92	0.02	0.0	12.538	0.673	81	34	78	78
10581	1058	B	4ACSR	14.71Y	122.6	0.02	3.39	2.89	2	39	16	93	0.00	0.0	11.255	0.538	39	16	35	35
11332	11331	A	4ACSR	14.79Y	123.2	0.01	2.79	0.68	1	9	4	91	0.00	0.0	10.115	1.219	9	4	4	4
10651	1065	C	2ACSR	14.94Y	124.5	0.00	1.51	0.14	0	2	1	89	0.00	0.0	7.066	0.720	2	1	6	6
10753	10752	A	4ACSR	14.95Y	124.6	0.01	1.40	1.88	2	26	11	92	0.00	0.0	1.846	0.423	26	11	11	11
10751	1075	A	4ACSR	14.96Y	124.7	0.01	1.34	0.83	1	11	5	91	0.00	0.0	2.190	1.012	11	5	10	10

Balanced Voltage Drop Report  
Source: HOPE

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.WM\

Title:

Case:

01/22/2003 10:57

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
----- Feeder NO. 1 Beginning with Node Element HO1 -----																				
HO1	HOPE	ABC	Node	15.12Y	126.0	0.00	0.00	9.69	0	410	158	93	0.00	0.0	0.000	0.000	0	0	0	186
710	HO1	ABC	1/OCU	15.11Y	125.9	0.07	0.07	9.69	4	410	158	93	0.17	0.0	1.178	1.178	92	36	47	186
7101	710	ABC	1/OCU	15.11Y	125.9	0.05	0.12	7.50	3	317	123	93	0.10	0.0	2.243	1.066	28	11	18	139
7102	7101	ABC	1/OCU	15.10Y	125.9	0.03	0.15	6.85	3	289	112	93	0.05	0.0	2.797	0.553	17	6	9	121
71022	7102	ABC	1/OCU	15.10Y	125.8	0.00	0.15	6.46	2	273	105	93	0.01	0.0	2.880	0.084	0	0	0	112
674S	71022	A	50L	15.10Y	125.8	-0.00	0.15	0.00	0	0	0	0	0.00	0.0	2.880	0.000	0	0	0	0
674	71022	A	4ACSR	15.04Y	125.3	0.51	0.66	19.37	16	273	105	93	1.03	0.4	3.922	1.041	6	2	8	112
6742	674	A	4ACSR	15.03Y	125.2	0.10	0.76	17.24	14	242	93	93	0.18	0.1	4.143	0.222	0	0	1	95
6744	6742	A	4ACSR	15.01Y	125.1	0.14	0.89	14.86	12	208	80	93	0.20	0.1	4.537	0.393	33	13	13	79
668S	6744	A	25V4E	15.01Y	125.1	-0.00	0.89	3.29	13	46	18	93	0.00	0.0	4.537	0.000	0	0	0	25
668	668S	A	4ACSR	15.01Y	125.1	0.03	0.92	3.29	3	46	18	93	0.01	0.0	5.119	0.582	34	13	18	25
6681	668	A	4ACSR	15.01Y	125.1	0.01	0.93	0.86	1	12	5	92	0.00	0.0	5.925	0.806	12	5	7	7
673	6744	A	4ACSR	15.00Y	125.0	0.12	1.01	9.20	8	129	50	93	0.09	0.1	5.304	0.767	83	32	25	41
6731S	673	A	50V4E	15.00Y	125.0	-0.00	1.01	3.27	7	46	18	93	0.00	0.0	5.304	0.000	0	0	0	16
6731	6731S	A	4ACSR	14.99Y	124.9	0.04	1.06	3.27	3	46	18	93	0.01	0.0	6.279	0.975	46	18	16	16
6743	6742	A	4ACSR	15.03Y	125.2	0.03	0.79	2.37	2	33	13	93	0.01	0.0	5.247	1.104	33	13	15	15
6741	674	A	4ACSR	15.04Y	125.3	0.02	0.68	1.67	1	23	9	93	0.00	0.0	4.837	0.915	23	9	9	9
P 674R	7102	A	Regulator	15.12Y	126.0	-0.15	0.00	0.00	0	0	0	0	0.00	0.0	2.797	0.000	0	0	0	0 P

Balanced Voltage Drop Report  
Source: HUNT

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.WM\

Title:

Case:

01/22/2003 10:57

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
----- Feeder NO. 2 Beginning with Node Element HU2 -----																				
HU2	HUNT	ABC	Node	15.12Y	126.0	0.00	0.00	7.93	0	335	130	93	0.00	0.0	0.000	0.000	0	0	0	131
HU2 AUTO	HU2	ABC	Transforme	7.53Y	125.5	0.49	0.49	7.93	23	335	130	93	0.31	0.1	0.000	0.000	0	0	0	131
332	HU2 AUTO	ABC	1/OACSR	7.51Y	125.1	0.39	0.88	15.85	8	335	127	94	0.90	0.3	1.165	1.165	6	2	1	131
317S	332	B	U	7.51Y	125.1	-0.00	0.88	21.84	0	153	58	94	0.00	0.0	1.165	0.000	0	0	0	54
317	317S	B	4ACSR	7.44Y	124.0	1.13	2.01	21.84	18	153	58	94	1.24	0.8	2.289	1.124	28	10	16	54
301S	317	B	U	7.44Y	124.0	0.00	2.01	0.00	0	0	0	0	0.00	0.0	2.289	0.000	0	0	0	0
P 316	317	B	4ACSR	7.44Y	124.0	0.00	2.01	0.00	0	0	0	0	0.00	0.0	2.989	0.700	0	0	0	0 P
301	317	B	4ACSR	7.43Y	123.8	0.22	2.23	17.87	15	124	47	94	0.20	0.2	2.551	0.262	16	6	7	38
30100	301	B	4ACSR	7.38Y	123.0	0.75	2.99	15.51	13	108	41	93	0.56	0.5	3.681	1.130	33	12	14	31
30101	30100	B	4ACSR	7.36Y	122.6	0.42	3.40	10.72	9	74	28	94	0.16	0.2	5.221	1.540	74	28	17	17
333	332	ABC	1/OACSR	7.50Y	125.0	0.14	1.02	8.30	4	175	66	94	0.17	0.1	1.972	0.808	0	0	3	76
P 334R	333	ABC	Regulator	7.56Y	126.0	-1.02	0.00	0.00	0	0	0	0	0.00	0.0	1.972	0.000	0	0	0	0 P
334	333	ABC	1/OACSR	7.50Y	125.0	0.01	1.03	0.75	0	16	6	94	0.00	0.0	2.701	0.728	16	6	7	7
P 33400	334	ABC	1/OACSR	7.50Y	125.0	-0.00	1.03	0.00	0	0	0	0	0.00	0.0	2.953	0.253	0	0	0	0 P
320	333	A	4ACSR	7.49Y	124.8	0.15	1.17	22.60	19	158	60	93	0.17	0.1	2.103	0.131	8	3	2	66
320R	320	A	Regulator	7.56Y	126.0	-1.17	0.00	21.42	21	150	57	93	0.00	0.0	2.103	0.000	0	0	0	64
32000	320R	A	4ACSR	7.55Y	125.8	0.17	0.17	21.22	18	150	57	93	0.19	0.1	2.259	0.156	2	1	1	64
32001S	32000	A	U	7.55Y	125.8	0.00	0.17	20.92	0	148	56	94	0.00	0.0	2.259	0.000	0	0	0	63
32001	32001S	A	4ACSR	7.50Y	124.9	0.90	1.06	20.92	18	148	56	94	0.98	0.7	3.123	0.864	6	2	3	63
321	32001	A	4ACSR	7.44Y	124.0	0.91	1.97	17.37	15	122	46	94	0.80	0.7	4.240	1.117	18	7	10	50
31001	321	A	4ACSR	7.43Y	123.9	0.15	2.13	5.25	4	37	14	94	0.03	0.1	5.398	1.158	37	14	15	15
310	321	A	4ACSR	7.41Y	123.6	0.46	2.43	9.51	8	66	25	94	0.19	0.3	5.571	1.331	38	14	14	25
31000	310	A	4ACSR	7.41Y	123.4	0.12	2.55	4.03	3	28	11	93	0.02	0.1	6.739	1.168	28	11	11	11
32002	32001	A	4ACSR	7.49Y	124.9	0.06	1.13	2.65	2	19	7	94	0.01	0.0	3.743	0.620	10	4	5	10
32003S	32002	A	U	7.49Y	124.9	-0.00	1.13	1.28	0	9	3	95	0.00	0.0	3.743	0.000	0	0	0	5
32003	32003S	A	4ACSR	7.49Y	124.8	0.04	1.17	1.28	1	9	3	95	0.00	0.0	4.746	1.003	6	2	4	5
32004	32003	A	4ACSR	7.49Y	124.8	0.01	1.18	0.39	0	3	1	95	0.00	0.0	6.142	1.397	3	1	1	1
----- Feeder NO. 4 Beginning with Node Element HU4 -----																				
HU4	HUNT	ABC	Node	15.12Y	126.0	0.00	0.00	41.04	0	1824	372	98	0.00	0.0	0.000	0.000	0	0	0	657
66	HU4	ABC	397ACSR	15.09Y	125.8	0.21	0.21	41.04	8	1824	372	98	2.14	0.1	1.687	1.687	25	9	12	657
71S	66	A	U	15.09Y	125.8	0.00	0.21	4.78	0	68	25	94	0.00	0.0	1.687	0.000	0	0	0	39
71	71S	A	4ACSR	15.09Y	125.7	0.04	0.25	4.78	4	68	25	94	0.02	0.0	2.023	0.336	9	3	3	39
77	71	A	6ACWC	15.09Y	125.7	0.01	0.27	0.48	0	7	3	92	0.00	0.0	3.494	1.471	3	1	2	6
77000	77	A	4ACSR	15.09Y	125.7	0.00	0.27	0.27	0	4	1	97	0.00	0.0	4.846	1.352	4	1	4	4
71099	71	A	4ACSR	15.08Y	125.7	0.09	0.34	3.67	3	52	20	93	0.03	0.1	3.538	1.516	38	14	17	30
71098	71099	A	4ACSR	15.08Y	125.6	0.02	0.36	0.98	1	14	5	94	0.00	0.0	4.903	1.364	14	5	13	13
6666	66	ABC	397ACSR	15.09Y	125.8	0.03	0.25	38.90	8	1730	332	98	0.34	0.0	1.978	0.291	1	0	1	606
65	6666	ABC	397ACSR	15.08Y	125.6	0.12	0.37	34.87	7	1556	266	99	1.11	0.1	3.191	1.213	19	7	11	543
70	65	A	6ACWC	15.07Y	125.6	0.02	0.39	1.00	1	14	5	94	0.00	0.0	4.607	1.416	14	5	10	10
64	65	ABC	397ACSR	15.07Y	125.5	0.08	0.45	34.11	7	1522	251	99	0.70	0.0	4.019	0.828	70	26	24	522
64000S	64	ABC	VWVE	15.07Y	125.5	-0.00	0.45	32.48	0	1451	222	99	0.00	0.0	4.019	0.000	0	0	0	498
64000	64000S	ABC	397ACSR	15.06Y	125.5	0.01	0.46	32.48	7	1451	222	99	0.09	0.0	4.137	0.119	14	5	5	498
61S	64000	C	35V4E	15.06Y	125.5	0.00	0.46	13.62	39	192	72	94	0.00	0.0	4.137	0.000	0	0	0	69
61	61S	C	4ACSR	15.02Y	125.1	0.39	0.85	13.62	11	192	72	94	0.56	0.3	5.279	1.142	6	2	4	69
61000	61	C	4ACSR	14.99Y	124.9	0.20	1.05	13.20	11	186	70	94	0.25	0.1	5.975	0.696	56	21	20	65
61002	61000	C	4ACSR	14.99Y	124.9	0.01	1.06	5.19	4	73	27	94	0.00	0.0	6.180	0.205	73	27	25	25
61001	61000	C	4ACSR	14.99Y	124.9	0.04	1.09	4.01	3	56	21	94	0.01	0.0	6.681	0.706	56	21	20	20
6000	64000	ABC	397ACSR	15.06Y	125.5	0.00	0.46	0.12	0	5	2	93	0.00	0.0	4.555	0.417	5	2	1	1
P 67981	6000	ABC	397ACSR	15.06Y	125.5	-0.00	0.46	0.00	0	0	0	0	0.00	0.0	4.587	0.033	0	0	0	0 P
P 6798SW-B	67981	ABC	Open	15.06Y	125.5	-0.00	0.46	0.00	0	0	0	0	0.00	0.0	4.587	0.000	0	0	0	0 P
60	64000	ABC	2ACSR	15.02Y	125.1	0.39	0.85	27.62	18	1240	143	99	3.60	0.3	5.169	1.032	53	20	12	423

Balanced Voltage Drop Report  
Source: HUNT

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.WM\

Title:

Case:

01/22/2003 10:57

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
60SW-A	60	ABC	Closed	15.02Y	125.1	-0.00	0.85	26.41	0	1184	121	99	0.00	0.0	5.169	0.000	0	0	0	411
P 60SW-B	60SW-A	ABC	Closed	15.02Y	125.1	-0.00	0.85	0.00	0	0	0	0	0.00	0.0	5.169	0.000	0	0	0	0 P
60000	60SW-A	ABC	2ACSR	15.00Y	125.0	0.16	1.01	26.41	17	1184	121	99	1.41	0.1	5.595	0.426	0	0	0	411
57	60000	ABC	2ACSR	14.95Y	124.6	0.42	1.43	26.41	17	1183	120	99	3.81	0.3	6.766	1.171	23	9	10	411
57000	57	ABC	2ACSR	14.91Y	124.3	0.28	1.71	25.88	17	1155	109	100	2.52	0.2	7.559	0.793	1	0	2	401
57001S	57000	ABC	VWVE	14.91Y	124.3	-0.00	1.71	25.85	0	1152	107	100	0.00	0.0	7.559	0.000	0	0	0	399
570011	57001S	ABC	2ACSR	14.91Y	124.3	0.02	1.73	25.85	17	1152	107	100	0.14	0.0	7.603	0.045	0	0	0	399
57001R	570011	ABC	Regulator	15.12Y	126.0	-1.73	0.00	25.85	26	1152	107	100	0.00	0.0	7.603	0.000	0	0	0	399
57001	57001R	ABC	2ACSR	15.12Y	126.0	0.04	0.04	25.50	16	1152	107	100	0.31	0.0	7.704	0.100	0	0	0	399
P 56	57001	B	4ACSR	15.12Y	126.0	0.00	0.04	0.00	0	0	0	0	0.00	0.0	8.973	1.269	0	0	1	1 P
55	57001	ABC	2ACSR	15.05Y	125.4	0.55	0.58	25.50	16	1151	107	100	4.80	0.4	9.277	1.573	14	5	6	398
41	55	ABC	1/OACSR	15.02Y	125.2	0.21	0.80	18.23	9	823	-11	-100	1.38	0.2	10.729	1.452	73	28	27	277
43	41	ABC	1/OACSR	15.02Y	125.1	0.06	0.86	15.81	8	710	-54	-100	0.39	0.1	11.248	0.520	21	8	11	238
45C	43	ABC	Capacitor	15.02Y	125.1	0.00	0.86	13.04	0	578	-104	-98	0.00	0.0	11.248	0.000	0	0	0	181
45000S	45C	ABC	50V4E	15.02Y	125.1	0.00	0.86	7.73	15	326	123	94	0.00	0.0	11.248	0.000	0	0	0	104
45000	45000S	ABC	1/OACSR	15.01Y	125.1	0.09	0.95	7.73	4	326	123	94	0.19	0.1	12.372	1.124	44	16	15	104
52S	45000	B	35V4E	15.01Y	125.1	-0.00	0.95	0.00	0	0	0	0	0.00	0.0	12.372	0.000	0	0	0	0
45001S	45000	A	U	15.01Y	125.1	-0.00	0.95	5.86	0	82	31	94	0.00	0.0	12.372	0.000	0	0	0	29
45001	45001S	A	4ACSR	15.00Y	125.0	0.03	0.98	5.86	5	82	31	94	0.02	0.0	12.570	0.198	0	0	0	29
54	45001	A	4ACSR	15.00Y	125.0	0.02	1.00	1.90	2	27	10	94	0.00	0.0	13.317	0.746	23	9	9	10
54003	54	A	4ACSR	15.00Y	125.0	0.00	1.00	0.26	0	4	1	97	0.00	0.0	14.626	1.309	4	1	1	1
P 54002	54	A	4ACSR	15.00Y	125.0	0.00	1.00	0.00	0	0	0	0	0.00	0.0	13.691	0.374	0	0	0	0 P
53	45001	A	4ACSR	14.99Y	124.9	0.09	1.07	3.96	3	56	21	94	0.02	0.0	14.341	1.771	56	21	19	19
52	45000	B	4ACSR	14.95Y	124.6	0.48	1.43	14.22	12	200	75	94	0.61	0.3	14.118	1.745	96	36	25	60
52000	52	B	4ACSR	14.95Y	124.6	0.01	1.43	3.17	3	44	17	93	0.00	0.0	14.183	0.066	4	1	3	19
P 52002	52000	B	4ACSR	14.95Y	124.6	0.00	1.43	0.00	0	0	0	0	0.00	0.0	14.261	0.078	0	0	0	0 P
52001	52000	B	4ACSR	14.95Y	124.5	0.02	1.45	2.89	2	40	15	94	0.01	0.0	14.848	0.665	40	15	16	16
51	52	B	4ACSR	14.94Y	124.5	0.06	1.49	4.22	4	59	22	94	0.02	0.0	15.304	1.186	59	22	16	16
46	45C	ABC	1/OACSR	15.02Y	125.1	0.01	0.87	6.01	3	252	99	93	0.01	0.0	11.348	0.099	9	3	4	77
46000S	46	ABC	50V4E	15.02Y	125.1	0.00	0.87	5.80	12	243	96	93	0.00	0.0	11.348	0.000	0	0	0	73
46000	46000S	ABC	1/OACSR	15.01Y	125.1	0.06	0.93	5.80	3	243	96	93	0.09	0.0	12.620	1.272	105	44	26	73
38S	46000	A	25V4E	15.01Y	125.1	-0.00	0.93	7.55	30	106	40	94	0.00	0.0	12.620	0.000	0	0	0	41
38	38S	A	6ACWC	15.00Y	125.0	0.11	1.04	7.55	6	106	40	94	0.08	0.1	13.316	0.697	37	14	18	41
38000	38	A	6ACWC	14.98Y	124.8	0.12	1.16	4.89	4	69	26	94	0.05	0.1	14.617	1.301	32	12	11	23
38001	38000	A	6ACWC	14.98Y	124.8	0.03	1.19	2.61	2	37	14	94	0.01	0.0	15.624	1.007	37	14	12	12
50	46000	A C	1/OACSR	15.01Y	125.1	0.00	0.93	1.12	1	32	12	94	0.00	0.0	13.256	0.637	32	12	6	6
45	43	ABC	1/OACSR	15.02Y	125.1	0.00	0.86	0.29	0	12	5	92	0.00	0.0	11.573	0.325	12	5	7	7
44	43	A	4ACSR	15.01Y	125.1	0.06	0.93	7.00	6	98	37	94	0.05	0.0	11.610	0.362	1	0	1	39
44000S	44	A	50V4E	15.01Y	125.1	-0.00	0.93	6.95	14	98	37	94	0.00	0.0	11.610	0.000	0	0	0	38
44000	44000S	A	4ACSR	14.99Y	124.9	0.17	1.09	6.95	6	98	37	94	0.08	0.1	13.496	1.886	98	37	38	38
42	41	C	4ACSR	15.02Y	125.2	0.03	0.83	2.68	2	38	14	94	0.01	0.0	11.597	0.868	38	14	12	12
40	55	ABC	1/OACSR	15.05Y	125.4	0.02	0.61	7.27	4	309	110	94	0.05	0.0	9.578	0.301	0	0	0	115
40000S	40	ABC	25V4E	15.05Y	125.4	0.00	0.61	7.27	29	309	110	94	0.00	0.0	9.578	0.000	0	0	0	115
40000	40000S	ABC	1/OACSR	15.04Y	125.3	0.04	0.65	7.27	4	309	110	94	0.09	0.0	10.148	0.570	2	1	2	115
40002	40000	ABC	1/OACSR	15.03Y	125.3	0.10	0.75	7.07	4	300	107	94	0.20	0.1	11.557	1.409	38	14	14	110
35	40002	A	4ACSR	15.01Y	125.1	0.13	0.88	7.28	6	104	33	95	0.09	0.1	12.396	0.839	30	11	8	41
37	35	A	4ACSR	15.01Y	125.1	0.02	0.90	1.06	1	15	6	93	0.00	0.0	13.534	1.138	6	2	6	10
37000	37	A	4ACSR	15.01Y	125.1	0.01	0.92	0.61	1	9	3	95	0.00	0.0	14.965	1.431	9	3	4	4
36	35	A	OKOGUARD M	15.01Y	125.1	0.01	0.89	4.12	2	60	16	97	0.00	0.0	12.695	0.299	30	11	11	23
36000	36	A	1/OACSR	15.01Y	125.1	0.01	0.91	2.08	1	29	11	93	0.00	0.0	13.705	1.010	29	11	12	12
34	40002	C	4ACSR	14.99Y	124.9	0.34	1.09	11.20	9	157	59	94	0.40	0.3	12.812	1.255	13	5	9	55
34000	34	C	4ACSR	14.97Y	124.7	0.20	1.29	10.24	9	144	54	94	0.19	0.1	13.796	0.984	61	23	16	46



Balanced Voltage Drop Report  
Source: HUNT

Detail

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.WM\  
Title:  
Case:

01/22/2003 10:57

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	
33	34000	C	4ACSR	14.96Y	124.7	0.03	1.32	2.27	2	32	12	94	0.01	0.0	14.965	1.170	32	12	8	8
32	34000	C	4ACSR	14.96Y	124.6	0.08	1.37	3.61	3	51	19	94	0.02	0.0	15.483	1.687	51	19	22	22
40001	40000	C	4ACSR	15.04Y	125.3	0.01	0.66	0.49	0	7	3	92	0.00	0.0	11.095	0.947	7	3	3	3
63	6666	B	4ACSR	15.08Y	125.6	0.11	0.36	12.22	10	173	65	94	0.14	0.1	2.330	0.352	7	2	4	62
63000S	63	B	35V4E	15.08Y	125.6	0.00	0.36	0.00	0	0	0	0	0.00	0.0	2.330	0.000	0	0	0	0
63000	63	B	4ACSR	15.04Y	125.3	0.31	0.67	11.75	10	166	62	94	0.32	0.2	3.750	1.421	89	34	29	58
63001	63000	B	4ACSR	15.03Y	125.2	0.09	0.75	5.44	5	77	29	94	0.04	0.1	4.655	0.904	48	18	15	29
63002	63001	B	4ACSR	15.03Y	125.2	0.02	0.77	2.01	2	28	11	93	0.00	0.0	5.461	0.807	28	11	14	14

Balanced Voltage Drop Report  
Source: MARIBA

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.WM\

Title:

Case:

01/22/2003 10:57

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-Element-		Cons On	Cons Thru
----- Feeder NO. 1 Beginning with Node Element MA1 -----																				
MA1	MARIBA	ABC	Node	7.56Y	126.0	0.00	0.00	48.41	0	997	459	91	0.00	0.0	0.000	0.000	0	0	0	275
1105	MA1	ABC	1/OACSR	7.52Y	125.4	0.62	0.62	48.41	24	997	459	91	4.29	0.4	0.594	0.594	7	2	11	275
1106	1105	ABC	1/OACSR	7.48Y	124.7	0.72	1.34	48.08	24	986	453	91	4.25	0.4	1.506	0.913	355	361	28	264
11061S	1106	A	25V4E	7.48Y	124.7	0.00	1.34	4.61	18	33	11	95	0.00	0.0	1.506	0.000	0	0	0	36
11061	11061S	A	2ACSR	7.48Y	124.6	0.06	1.40	4.61	3	33	11	95	0.01	0.0	2.092	0.586	23	7	24	36
11062	11061	A	2ACSR	7.47Y	124.6	0.02	1.42	1.40	1	10	3	96	0.00	0.0	2.909	0.817	10	3	12	12
P 1106C	1106	ABC	Capacitor	7.48Y	124.7	0.00	1.34	-7.21	0	0	-162	0	0.00	0.0	1.506	0.000	0	0	0	0
11063	1106	ABC	1/OACSR	7.46Y	124.3	0.39	1.72	28.53	14	594	240	93	1.59	0.3	2.163	0.657	32	11	26	200
11065	11063	ABC	1/OACSR	7.45Y	124.2	0.12	1.84	26.00	13	538	221	92	0.45	0.1	2.378	0.215	9	3	6	155
11101	11065	ABC	1/OACSR	7.44Y	124.0	0.12	1.96	25.60	13	529	218	92	0.44	0.1	2.594	0.216	0	0	1	149
1110S	11101	ABC	50V4E	7.44Y	124.0	0.00	1.96	24.92	50	514	212	92	0.00	0.0	2.594	0.000	0	0	0	130
1110	1110S	ABC	1/OACSR	7.42Y	123.7	0.29	2.25	24.92	12	514	212	92	1.05	0.2	3.147	0.552	9	3	13	130
1111	1110	ABC	1/OACSR	7.41Y	123.6	0.18	2.44	24.47	12	504	208	92	0.58	0.1	3.576	0.429	165	94	29	117
111101S	1111	ABC	25V4E	7.41Y	123.6	0.00	2.44	0.00	0	0	0	0	0.00	0.0	3.576	0.000	0	0	0	0
11121	1111	B	4ACSR	7.41Y	123.5	0.04	2.48	4.74	4	33	11	95	0.01	0.0	3.753	0.177	1	0	1	48
1112S	11121	B	25V4E	7.41Y	123.5	0.00	2.48	4.64	19	33	11	95	0.00	0.0	3.753	0.000	0	0	0	47
1112	1112S	B	4ACSR	7.40Y	123.3	0.18	2.66	4.64	4	33	11	95	0.03	0.1	5.316	1.563	33	11	47	47
111101	1111	ABC	1/OACSR	7.41Y	123.4	0.14	2.58	14.47	7	305	103	95	0.20	0.1	4.512	0.937	305	102	40	40
11102S	11101	B	25L	7.44Y	124.0	-0.00	1.96	2.03	8	14	5	94	0.00	0.0	2.594	0.000	0	0	0	18
11102	11102S	B	2ACSR	7.44Y	124.0	0.05	2.01	2.03	1	14	5	94	0.00	0.0	3.877	1.283	14	5	18	18
11064	11063	B	4ACSR	7.46Y	124.3	0.02	1.75	3.08	3	22	7	95	0.00	0.0	2.484	0.321	22	7	19	19
----- Feeder NO. 3 Beginning with Node Element MA3 -----																				
MA3	MARIBA	ABC	Node	7.56Y	126.0	0.00	0.00	39.96	0	838	345	92	0.00	0.0	0.000	0.000	0	0	0	242
1120	MA3	ABC	336ACSR	7.55Y	125.9	0.13	0.13	39.96	9	838	345	92	0.52	0.1	0.360	0.360	5	2	8	242
11201	1120	ABC	336ACSR	7.55Y	125.8	0.07	0.20	39.73	9	833	342	93	0.30	0.0	0.568	0.207	3	1	4	234
1121S	11201	B	35V4E	7.55Y	125.8	0.00	0.20	1.24	4	9	3	95	0.00	0.0	0.568	0.000	0	0	0	15
1121	1121S	B	4ACSR	7.55Y	125.8	0.05	0.25	1.24	1	9	3	95	0.00	0.0	1.506	0.939	3	1	4	15
11211	1121	B	4ACSR	7.54Y	125.7	0.02	0.27	0.77	1	6	2	95	0.00	0.0	2.570	1.064	6	2	11	11
1117	11201	ABC	4ACSR	7.46Y	124.3	1.53	1.73	39.18	33	821	338	92	10.16	1.2	1.477	0.909	13	4	18	215
11172	1117	ABC	4ACSR	7.45Y	124.2	0.11	1.83	38.25	32	790	328	92	0.69	0.1	1.540	0.064	0	0	1	186
11173	11172	C	4ACSR	7.45Y	124.2	0.01	1.85	0.66	1	5	2	93	0.00	0.0	2.316	0.776	5	2	9	9
1116	11172	ABC	6ACWC	7.36Y	122.7	1.50	3.34	38.03	32	785	326	92	9.69	1.2	2.471	0.930	16	5	35	176
11161S	1116	C	25V4E	7.36Y	122.7	0.00	3.34	1.39	6	10	3	96	0.00	0.0	2.471	0.000	0	0	0	19
11161	11161S	C	6ACWC	7.36Y	122.6	0.04	3.38	1.39	1	10	3	96	0.00	0.0	3.652	1.181	10	3	19	19
11162R	1116	ABC	Regulator	7.56Y	126.0	-3.34	0.00	36.82	37	750	314	92	0.00	0.0	2.471	0.000	0	0	0	122
111622	11162R	ABC	6ACWC	7.55Y	125.9	0.12	0.12	35.84	30	750	314	92	0.74	0.1	2.550	0.079	0	0	0	122
111622C	111622	ABC	Capacitor	7.55Y	125.9	-0.00	0.12	35.84	0	749	314	92	0.00	0.0	2.550	0.000	0	0	0	122
11162	111622C	ABC	6ACWC	7.54Y	125.6	0.24	0.36	39.23	33	749	479	84	1.65	0.2	2.697	0.147	2	1	2	122
1115S	11162	B	25V4E	7.54Y	125.6	0.00	0.36	2.09	8	15	5	95	0.00	0.0	2.697	0.000	0	0	0	18
1115	1115S	B	6ACWC	7.54Y	125.6	0.05	0.41	2.09	2	15	5	95	0.00	0.0	3.571	0.874	15	5	18	18
1114S	11162	ABC	VWVE	7.54Y	125.6	-0.00	0.36	38.49	0	731	473	84	0.00	0.0	2.697	0.000	0	0	0	102
1114	1114S	ABC	4ACSR	7.44Y	124.0	1.64	2.01	38.49	32	731	473	84	11.02	1.5	3.723	1.027	18	6	22	102
11141	1114	ABC	4ACSR	7.38Y	122.9	1.07	3.07	37.65	32	701	463	83	6.63	0.9	4.449	0.726	89	100	11	80
11143	11141	ABC	6ACWC	7.30Y	121.6	1.31	4.39	31.62	27	601	359	86	7.16	1.2	5.452	1.003	21	7	28	60
11144	11143	ABC	6ACWC	7.26Y	121.0	0.61	4.99	30.64	26	573	349	85	3.24	0.6	5.925	0.473	2	1	4	32
C 11145S	11144	ABC	35V4E	7.26Y	121.0	-0.00	4.99	30.55	87	568	347	85	0.00	0.0	5.925	0.000	0	0	0	28
11145	11145S	ABC	6ACWC	7.23Y	120.6	0.44	5.43	30.55	26	568	347	85	1.56	0.3	6.609	0.683	566	347	28	28
11142	11141	C	6ACWC	7.37Y	122.9	0.01	3.09	0.77	1	5	2	93	0.00	0.0	5.165	0.716	5	2	9	9
11171	1117	C	4ACSR	7.46Y	124.3	0.02	1.75	1.01	1	7	2	96	0.00	0.0	2.117	0.641	7	2	11	11

Balanced Voltage Drop Report  
Source: MT STERLING

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.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-		Cons On	Cons Thru
----- Feeder NO. 1 Beginning with Node Element MS1 -----																				
<b>MS1</b>	<b>MT STERLING</b>	ABC	Node	7.56Y	126.0	0.00	0.00	44.81	0	1001	174	99	0.00	0.0	0.000	0.000	0	0	0	344
46300	MS1	ABC	4/OACSR	7.55Y	125.9	0.08	0.08	44.81	16	1001	174	99	0.55	0.1	0.162	0.162	17	6	7	344
46430	46300	B	4ACSR	7.53Y	125.5	0.42	0.51	38.95	33	279	95	95	0.83	0.3	0.397	0.234	46	15	13	98
464S	46430	B	70V4E	7.53Y	125.5	-0.00	0.51	0.57	1	4	1	97	0.00	0.0	0.397	0.000	0	0	0	1
464	464S	B	4ACSR	7.53Y	125.5	0.00	0.51	0.57	0	4	1	97	0.00	0.0	0.630	0.234	4	1	1	1
<b>46431</b>	<b>46430</b>	<b>B</b>	<b>4ACSR</b>	<b>7.39Y</b>	<b>123.2</b>	<b>2.27</b>	<b>2.77</b>	<b>31.92</b>	<b>27</b>	<b>228</b>	<b>77</b>	<b>95</b>	<b>3.66</b>	<b>1.6</b>	<b>1.929</b>	<b>1.533</b>	<b>37</b>	<b>12</b>	<b>20</b>	<b>84</b>
46432S	46431	B	35V4E	7.39Y	123.2	0.00	2.77	26.74	76	187	63	95	0.00	0.0	1.929	0.000	0	0	0	64
46432	46432S	B	4ACSR	7.28Y	121.4	1.87	4.64	26.74	22	187	63	95	2.48	1.3	3.473	1.544	39	13	13	64
466	46432	B	4ACSR	7.24Y	120.7	0.62	5.26	16.96	14	117	39	95	0.55	0.5	4.243	0.770	12	4	6	45
4662	466	B	4ACSR	7.22Y	120.3	0.47	5.74	14.59	12	100	33	95	0.27	0.3	5.298	1.055	78	26	24	35
4664	4662	B	4ACSR	7.21Y	120.2	0.07	5.81	3.05	3	21	7	95	0.01	0.0	6.192	0.894	21	7	9	9
4663	4662	B	4ACSR	7.22Y	120.3	0.00	5.74	0.15	0	1	0	100	0.00	0.0	6.140	0.842	1	0	2	2
4661	466	B	4ACSR	7.24Y	120.7	0.02	5.28	0.60	1	4	1	97	0.00	0.0	5.354	1.111	4	1	4	4
465	46432	B	4ACSR	7.27Y	121.2	0.14	4.78	4.21	4	29	10	95	0.02	0.1	4.751	1.278	29	10	6	6
463	46300	ABC	4/OACSR	7.53Y	125.6	0.36	0.44	31.26	11	705	73	99	1.64	0.2	1.439	1.277	191	67	59	239
4632	463	A	4ACSR	7.53Y	125.5	0.02	0.46	3.77	3	27	9	95	0.00	0.0	1.655	0.215	27	9	14	14
4631	463	ABC	4/OACSR	7.53Y	125.6	0.01	0.45	21.46	8	485	-5	-100	0.04	0.0	1.493	0.053	2	1	1	166
P 4635C	4631	ABC	Capacitor	7.53Y	125.6	0.00	0.45	6.89	0	47	-148	-30	0.00	0.0	1.493	0.000	0	0	0	18 P
4633	4635C	A	4ACSR	7.53Y	125.5	0.04	0.49	6.62	6	47	16	95	0.01	0.0	1.734	0.241	47	16	18	18
4635	4631	ABC	4/OACSR	7.53Y	125.5	0.04	0.49	20.29	7	436	142	95	0.11	0.0	1.655	0.163	29	10	10	147
4639	4635	A	OKOGUARD M	7.53Y	125.5	0.03	0.52	12.27	6	88	28	95	0.01	0.0	1.872	0.217	88	29	31	31
4638	4635	ABC	4/OACSR	7.53Y	125.4	0.07	0.56	14.86	5	319	105	95	0.12	0.0	2.022	0.367	47	16	16	106
4642	4638	ABC	4/OACSR	7.53Y	125.4	0.01	0.57	11.01	4	236	77	95	0.02	0.0	2.116	0.094	17	6	7	78
4643	4642	ABC	4/OACSR	7.53Y	125.4	0.01	0.58	7.08	2	152	51	95	0.01	0.0	2.193	0.077	19	6	8	43
4644	4643	ABC	1/OACSR	7.52Y	125.4	0.01	0.59	6.21	3	133	44	95	0.01	0.0	2.316	0.123	98	33	27	35
4637S	4644	A	35V4E	7.52Y	125.4	-0.00	0.59	0.00	0	0	0	0	0.00	0.0	2.316	0.000	0	0	0	0
P 4637	4637S	A	4ACSR	7.52Y	125.4	-0.00	0.59	0.00	0	0	0	0	0.00	0.0	2.512	0.196	0	0	0	0 P
4645	4644	ABC	1/OACSR	7.52Y	125.4	0.01	0.60	1.65	1	35	12	95	0.00	0.0	2.658	0.343	0	0	0	8
462	4645	C	4ACSR	7.52Y	125.3	0.12	0.72	4.94	4	35	12	95	0.02	0.1	3.625	0.967	35	12	8	8
P 461	4645	ABC	1/OACSR	7.52Y	125.4	0.00	0.60	0.00	0	0	0	0	0.00	0.0	3.485	0.827	0	0	0	0 P
P 461R	461	ABC	Regulator	7.56Y	126.0	-0.60	0.00	0.00	0	0	0	0	0.00	0.0	3.485	0.000	0	0	0	0 P
4641	4642	A	OKOGUARD M	7.52Y	125.4	0.03	0.60	9.46	5	68	21	96	0.01	0.0	2.371	0.255	68	23	28	28
4640	4638	A	OKOGUARD M	7.53Y	125.4	0.01	0.56	4.95	3	36	11	96	0.00	0.0	2.143	0.121	36	12	12	12

Balanced Voltage Drop Report  
Source: REID VILLAGE

Detail

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.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-		Cons On	Cons Thru
----- Feeder NO.		2	Beginning with Node Element RV2																	
RV2	REID VILLAGE	ABC	Node	7.56Y	126.0	0.00	0.00	70.56	0	1562	350	98	0.00	0.0	0.000	0.000	0	0	0	365
46044	RV2	ABC	336ACSR	7.56Y	126.0	0.01	0.01	70.56	16	1562	350	98	0.12	0.0	0.026	0.026	0	0	0	365
46045	46044	ABC	336ACSR	7.56Y	126.0	0.02	0.03	70.56	16	1561	350	98	0.15	0.0	0.058	0.032	0	0	0	365
4604	46045	ABC	4ACSR	7.50Y	125.0	0.93	0.96	70.56	59	1561	349	98	11.03	0.7	0.377	0.318	101	44	26	365
4603S	4604	C	35V4E	7.50Y	125.0	0.00	0.96	16.11	46	111	49	91	0.00	0.0	0.377	0.000	0	0	0	30
4603	4603S	C	4ACSR	7.49Y	124.9	0.15	1.11	16.11	14	111	49	91	0.08	0.1	0.738	0.362	111	49	30	30
4601	4604	ABC	4ACSR	7.48Y	124.7	0.36	1.32	60.52	51	1338	252	98	3.69	0.3	0.516	0.139	27	12	12	309
4602S	4601	ABC	50V4E	7.48Y	124.7	0.00	1.32	23.42	47	481	211	92	0.00	0.0	0.516	0.000	0	0	0	119
4602	4602S	ABC	4ACSR	7.47Y	124.4	0.26	1.58	23.42	20	481	211	92	0.94	0.2	0.810	0.295	128	56	36	119
4608	4602	ABC	4ACSR	7.45Y	124.1	0.31	1.89	17.17	14	352	155	92	0.91	0.3	1.230	0.420	0	0	0	83
C 4606S	4608	A	25E	7.45Y	124.1	-0.00	1.89	39.28	157	268	118	92	0.00	0.0	1.230	0.000	0	0	0	61
4606	4606S	A	4ACSR	7.42Y	123.7	0.36	2.26	39.28	33	268	118	92	0.64	0.2	1.465	0.235	121	53	27	61
4607	4606	A	4ACSR	7.41Y	123.4	0.31	2.57	21.47	18	146	64	92	0.24	0.2	2.036	0.571	146	64	34	34
4605S	4608	B	25E	7.45Y	124.1	0.00	1.89	12.21	49	83	37	91	0.00	0.0	1.230	0.000	0	0	0	22
4605	4605S	B	4ACSR	7.44Y	124.0	0.10	2.00	12.21	10	83	37	91	0.04	0.1	1.565	0.335	83	37	22	22
460	4601	ABC	4ACSR	7.47Y	124.5	0.19	1.51	36.86	31	827	28	100	1.19	0.1	0.646	0.130	79	37	14	178
457S	460	ABC	50L	7.47Y	124.5	-0.00	1.51	23.02	46	475	200	92	0.00	0.0	0.646	0.000	0	0	0	109
457	457S	ABC	4ACSR	7.44Y	124.0	0.46	1.97	23.02	19	475	200	92	1.73	0.4	1.132	0.486	50	22	11	109
4572S	457	C	25V4E	7.44Y	124.0	-0.00	1.97	8.97	36	61	27	91	0.00	0.0	1.132	0.000	0	0	0	15
4572	4572S	C	4ACSR	7.43Y	123.9	0.12	2.09	8.97	8	61	27	91	0.04	0.1	1.669	0.537	61	27	15	15
4571	457	ABC	4ACSR	7.43Y	123.8	0.19	2.15	17.57	15	362	151	92	0.55	0.2	1.379	0.248	9	4	3	83
4573S	4571	B	25V4E	7.43Y	123.8	-0.00	2.15	18.90	76	128	57	91	0.00	0.0	1.379	0.000	0	0	0	29
4573	4573S	B	4ACSR	7.42Y	123.7	0.19	2.34	18.90	16	128	57	91	0.13	0.1	1.776	0.397	128	57	29	29
4579	4571	ABC	4ACSR	7.43Y	123.8	0.02	2.17	10.82	9	224	89	93	0.04	0.0	1.424	0.045	13	6	3	51
45793	4579	ABC	4ACSR	7.43Y	123.8	0.02	2.19	8.81	7	182	73	93	0.03	0.0	1.477	0.053	1	0	1	38
45791	45793	C	OKOGUARD M	7.43Y	123.8	0.02	2.21	3.08	2	22	7	95	0.00	0.0	2.039	0.562	22	10	4	4
4575	45793	C	4ACSR	7.43Y	123.8	0.05	2.24	23.27	20	160	66	92	0.06	0.0	1.519	0.042	0	0	1	33
4576S	4575	C	25V4E	7.43Y	123.8	-0.00	2.24	14.68	59	101	41	93	0.00	0.0	1.519	0.000	0	0	0	19
4576	4576S	C	4ACSR	7.42Y	123.7	0.07	2.32	14.68	12	101	41	93	0.06	0.1	1.615	0.096	0	0	0	19
4578	4576	C	OKOGUARD M	7.42Y	123.6	0.04	2.35	8.30	4	57	23	93	0.01	0.0	1.986	0.371	57	25	9	9
4577	4576	C	OKOGUARD M	7.42Y	123.7	0.03	2.34	6.38	3	44	17	93	0.01	0.0	1.987	0.372	44	19	10	10
4574S	4575	C	25V4E	7.43Y	123.8	-0.00	2.24	8.59	34	58	26	91	0.00	0.0	1.519	0.000	0	0	0	13
4574	4574S	C	4ACSR	7.42Y	123.7	0.07	2.32	8.59	7	58	26	91	0.02	0.0	1.852	0.333	58	26	13	13
45792	4579	C	OKOGUARD M	7.43Y	123.8	0.02	2.19	4.16	2	29	11	93	0.00	0.0	1.867	0.443	29	13	10	10
P 4615	460	ABC	1/OACSR	7.47Y	124.5	0.00	1.51	15.29	8	271	-210	-79	0.01	0.0	0.661	0.016	15	7	4	55
P 46140C	4615	ABC	Capacitor	7.47Y	124.5	0.00	1.51	14.26	0	223	-229	-70	0.00	0.0	0.661	0.000	0	0	0	42
46140	46140C	ABC	1/OACSR	7.46Y	124.4	0.09	1.60	10.78	5	223	94	92	0.14	0.1	1.037	0.375	0	0	0	42
46143S	46140	ABC	50L	7.46Y	124.4	0.00	1.60	3.90	8	80	35	92	0.00	0.0	1.037	0.000	0	0	0	23
46143	46143S	ABC	1/OACSR	7.46Y	124.4	0.02	1.61	3.90	2	80	35	92	0.01	0.0	1.357	0.320	53	23	15	23
46144	46143	ABC	OKOGUARD M	7.46Y	124.4	0.00	1.61	1.32	1	27	12	91	0.00	0.0	1.368	0.011	0	0	0	8
46145	46144	ABC	1/OACSR	7.46Y	124.4	0.00	1.62	1.32	1	27	12	91	0.00	0.0	1.504	0.136	27	12	8	8
4614	46140	ABC	1/OACSR	7.46Y	124.4	0.04	1.64	6.87	3	142	58	93	0.04	0.0	1.345	0.309	26	11	5	19
46142	4614	ABC	336ACSR	7.46Y	124.4	0.01	1.64	5.61	1	116	47	93	0.00	0.0	1.466	0.121	0	0	0	14
46141	46142	ABC	336ACSR	7.46Y	124.4	0.00	1.65	5.61	1	116	47	93	0.00	0.0	1.542	0.076	32	14	5	14
4612	46141	A	OKOGUARD M	7.45Y	124.2	0.11	1.76	12.17	6	85	33	93	0.05	0.1	2.356	0.814	85	37	9	9
4616	4615	C	OKOGUARD M	7.47Y	124.5	0.02	1.53	4.74	2	33	13	93	0.00	0.0	0.981	0.320	33	15	9	9

Balanced Voltage Drop Report  
Source: SIDEVIEW

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Case:

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Units Displayed In Volts																							
-Base Voltage:120.0-																							
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru			
-----																							
----- Feeder NO.		3	Beginning with Node Element		SV3	-----																	
SV3	SIDEVIEW	ABC	Node	7.56Y	126.0	0.00	0.00	44.80	0	957	341	94	0.00	0.0	0.000	0.000	0	0	0	340			
167	SV3	ABC	4/OACSR	7.54Y	125.7	0.30	0.30	44.80	16	957	341	94	1.73	0.2	0.507	0.507	11	4	8	340			
176	167	ABC	6ACWC	7.42Y	123.7	2.03	2.33	44.29	38	945	334	94	14.92	1.6	1.620	1.113	76	26	31	332			
201S	176	A	50L	7.42Y	123.7	-0.00	2.33	19.13	38	134	48	94	0.00	0.0	1.620	0.000	0	0	0	60			
201	201S	A	4ACSR	7.37Y	122.9	0.80	3.14	19.13	16	134	48	94	0.70	0.5	2.686	1.066	59	20	24	60			
2011	201	A	4ACSR	7.35Y	122.5	0.34	3.48	10.67	9	74	28	94	0.19	0.3	3.315	0.629	2	1	1	36			
2013	2011	A	4ACSR	7.35Y	122.4	0.11	3.58	3.93	3	27	9	95	0.02	0.1	3.852	0.538	0	0	0	22			
207S	2013	A	35H	7.35Y	122.4	-0.00	3.58	3.93	11	27	9	95	0.00	0.0	3.852	0.000	0	0	0	22			
207	207S	A	4ACSR	7.33Y	122.2	0.23	3.81	3.93	3	27	9	95	0.04	0.1	5.354	1.502	13	5	12	22			
210	207	A	4ACSR	7.33Y	122.1	0.07	3.88	2.02	2	14	5	94	0.00	0.0	6.685	1.331	14	5	10	10			
2012	2011	A	4ACSR	7.35Y	122.4	0.10	3.57	6.47	5	44	17	93	0.02	0.0	3.898	0.583	44	17	13	13			
202	176	ABC	6ACWC	7.38Y	122.9	0.75	3.08	34.31	29	720	255	94	4.31	0.6	2.135	0.515	25	9	9	241			
2022	202	ABC	6ACWC	7.31Y	121.9	1.04	4.12	30.81	26	642	228	94	5.35	0.8	2.946	0.811	39	14	14	212			
2023	2022	ABC	6ACWC	7.23Y	120.5	1.33	5.45	28.92	25	598	213	94	6.38	1.1	4.052	1.106	42	14	17	198			
211S	2023	ABC	50L	7.23Y	120.5	-0.00	5.45	14.80	30	303	105	94	0.00	0.0	4.052	0.000	0	0	0	110			
211	211S	ABC	6ACWC	7.20Y	120.0	0.50	5.95	14.80	13	303	105	94	1.20	0.4	4.905	0.854	47	16	18	110			
2111	211	ABC	6ACWC	7.18Y	119.7	0.35	6.30	12.49	11	255	88	95	0.70	0.3	5.645	0.740	56	19	22	92			
C 208S	2111	B	35L	7.18Y	119.7	-0.00	6.30	29.20	83	198	69	94	0.00	0.0	5.645	0.000	0	0	0	70			
208	208S	B	4ACSR	7.11Y	118.5	1.18	7.48	29.20	25	198	69	94	1.73	0.9	6.518	0.873	34	12	15	70			
2081	208	B	4ACSR	7.08Y	118.0	0.51	7.99	24.11	20	162	56	95	0.44	0.3	7.362	0.844	162	56	55	55			
203S	2023	ABC	50V4E	7.23Y	120.5	-0.00	5.45	12.10	24	246	91	94	0.00	0.0	4.052	0.000	0	0	0	71			
203	203S	ABC	6ACWC	7.22Y	120.3	0.23	5.68	12.10	10	246	91	94	0.45	0.2	4.520	0.468	34	12	14	71			
204	203	C	4ACSR	7.14Y	119.0	1.31	6.99	31.35	26	212	79	94	2.05	1.0	5.431	0.911	41	14	19	57			
2041	204	C	4ACSR	7.10Y	118.3	0.69	7.67	25.36	21	169	64	94	0.84	0.5	6.055	0.624	50	17	21	38			
453	2041	C	4ACSR	7.09Y	118.1	0.20	7.88	17.96	15	119	47	93	0.13	0.1	6.495	0.441	118	47	17	17			
2021	202	C	4ACSR	7.37Y	122.8	0.16	3.24	6.91	6	48	17	94	0.04	0.1	3.025	0.890	48	17	20	20			

Balanced Voltage Drop Report  
Source: TRAPP

Detail

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.WM\

Title:

Case:

01/22/2003 10:57

Units Displayed In Volts																					
-Base Voltage:120.0-																					
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru	
----- Feeder NO.		3	Beginning with Node Element TR3																	-----	
TR3	TRAPP	ABC	Node	7.56Y	126.0	0.00	0.00	20.92	0	464	101	98	0.00	0.0	0.000	0.000	0	0	0	146	
3380	TR3	ABC	336ACSR	7.56Y	126.0	0.03	0.03	20.92	5	464	101	98	0.07	0.0	0.165	0.165	0	0	0	146	
338	3380	ABC	336ACSR	7.56Y	125.9	0.04	0.07	20.92	5	464	101	98	0.12	0.0	0.459	0.295	0	0	1	146	
340C	338	ABC	Capacitor	7.56Y	125.9	-0.00	0.07	20.92	0	463	100	98	0.00	0.0	0.459	0.000	0	0	0	145	
340	340C	ABC	1/OACSR	7.54Y	125.6	0.30	0.37	23.56	12	463	266	87	0.91	0.2	1.154	0.695	151	73	24	145	
351	340	ABC	1/OACSR	7.53Y	125.5	0.13	0.50	14.38	7	275	174	85	0.26	0.1	1.571	0.417	9	4	6	104	
357S	351	A	50V4E	7.53Y	125.5	0.00	0.50	16.10	32	109	53	90	0.00	0.0	1.571	0.000	0	0	0	56	
357	357S	A	4ACSR	7.49Y	124.8	0.68	1.18	16.10	14	109	53	90	0.50	0.5	2.582	1.011	40	20	22	56	
3570	357	A	4ACSR	7.46Y	124.4	0.44	1.62	10.10	8	68	33	90	0.20	0.3	3.627	1.044	26	13	11	34	
364S	3570	A	25L	7.46Y	124.4	-0.00	1.62	6.22	25	42	20	90	0.00	0.0	3.627	0.000	0	0	0	23	
364	364S	A	4ACSR	7.45Y	124.1	0.26	1.88	6.22	5	42	20	90	0.06	0.1	5.281	1.655	42	20	23	23	
350	351	ABC	1/OACSR	7.52Y	125.3	0.17	0.68	8.63	4	156	116	80	0.19	0.1	2.600	1.029	45	22	18	42	
3502S	350	C	35H	7.52Y	125.3	0.00	0.68	2.85	8	19	9	90	0.00	0.0	2.600	0.000	0	0	0	13	
3502	3502S	C	4ACSR	7.51Y	125.2	0.10	0.77	2.85	2	19	9	90	0.01	0.0	3.936	1.336	19	9	13	13	
P 3501	350	ABC	1/OACSR	7.51Y	125.2	0.10	0.78	5.53	3	91	85	73	0.08	0.1	3.447	0.846	0	0	0	11 P	
P 359	3501	ABC	1/OACSR	7.51Y	125.2	-0.00	0.78	0.00	0	0	0	0	0.00	0.0	4.020	0.573	0	0	0	1 P	
P 336	359	C	4ACSR	7.51Y	125.2	-0.00	0.78	0.00	0	0	0	0	0.00	0.0	5.625	1.606	0	0	1	1 P	
P 335	3501	ABC	1/OACSR	7.50Y	125.1	0.15	0.93	5.53	3	91	85	73	0.11	0.1	4.718	1.272	7	3	4	10 P	
P 33401	335	ABC	1/OACSR	7.50Y	125.1	0.00	0.93	0.00	0	0	0	0	0.00	0.0	5.083	0.364	0	0	0	0 P	
P 329	335	ABC	1/OACSR	7.50Y	125.0	0.03	0.97	5.20	3	84	81	72	0.02	0.0	5.301	0.583	84	81	6	6 P	
3371	340	ABC	4ACSR	7.54Y	125.6	0.00	0.38	1.80	2	37	18	90	0.00	0.0	1.212	0.059	15	7	6	17	
337	3371	A	4ACSR	7.53Y	125.5	0.09	0.47	3.17	3	22	10	91	0.01	0.0	2.342	1.129	22	10	11	11	

Balanced Voltage Drop Report  
Source: VAN METER

Database: D:\MILSOFT\SUMMER 2008 LRP MODEL\INITIAL MODEL - ACTUAL JUNE 2002 LOADS.WM\

Title:

Case:

01/22/2003 10:57

		Units Displayed In Volts																		
		-Base Voltage:120.0-																		
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																	Cons On	Cons Thru		
----- Feeder NO.		1	Beginning with Node Element VM1														-----			
VM1	VAN METER	ABC	Node	7.56Y	126.0	0.00	0.00	7.11	0	148	63	92	0.00	0.0	0.000	0.000	0	0	0	60
27	VM1	ABC	4ACSR	7.56Y	125.9	0.06	0.06	7.11	6	148	63	92	0.07	0.0	0.185	0.185	0	0	1	60
27000	27	B	4ACSR	7.51Y	125.2	0.77	0.82	21.29	18	148	63	92	0.63	0.4	1.379	1.194	120	51	38	59
28	27000	B	4ACSR	7.50Y	125.0	0.14	0.97	3.90	3	27	11	93	0.02	0.1	2.386	1.007	15	7	7	21
31S	28	B	15H	7.50Y	125.0	-0.00	0.97	1.66	11	11	5	91	0.00	0.0	2.386	0.000	0	0	0	12
31	31S	B	4ACSR	7.50Y	124.9	0.09	1.05	1.66	1	11	5	91	0.01	0.0	3.601	1.215	4	2	4	12
29	31	B	4ACSR	7.50Y	124.9	0.03	1.08	1.14	1	8	3	94	0.00	0.0	4.593	0.992	8	3	8	8
30	28	B	4ACSR	7.50Y	125.0	0.00	0.97	0.00	0	0	0	0	0.00	0.0	3.679	1.293	0	0	2	2

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# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01110372**

**Name: Billy McGuire**

**Address: Box 291**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/15/02 3:41:37 AM</b>	<b>247</b>	<b>1/1/2002 4:31:31 PM</b>	<b>255</b>	<b>12/30/2001 9:30:05 AM</b>
<b>1/29/02 2:47:46 AM</b>	<b>247</b>	<b>1/15/2002 12:04:48 PM</b>	<b>254</b>	<b>1/15/2002 7:30:51 AM</b>



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# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01102253**

**Name: LeeRay Adams**

**Address: 2188 Ky Hwy 302**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/5/02 3:24:46 AM</b>	<b>243</b>	<b>1/2/2002 7:28:37 AM</b>	<b>253</b>	<b>12/22/2001 1:10:41 PM</b>
<b>1/20/02 12:59:28 AM</b>	<b>245</b>	<b>1/5/2002 3:47:14 AM</b>	<b>253</b>	<b>1/9/2002 3:28:38 PM</b>

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# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01060878**

**Name: Tommy Stull**

**Address: 10067 Stulltown Rd**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/15/02 4:04:42 AM</b>	<b>245</b>	<b>12/22/2001 6:51:27 PM</b>	<b>254</b>	<b>12/21/2001 6:55:00 AM</b>
<b>1/29/02 12:52:50 AM</b>	<b>246</b>	<b>1/18/2002 7:29:30 PM</b>	<b>255</b>	<b>1/25/2002 12:06:58 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**01110017**

**Michael Williams**

**Address: 5345 White & Concright**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/5/02 2:41:28 AM</b>	<b>243</b>	<b>12/21/2001 6:14:07 AM</b>	<b>254</b>	<b>12/22/2001 12:43:51 AM</b>
<b>1/20/02 1:27:03 AM</b>	<b>242</b>	<b>1/6/2002 1:32:59 PM</b>	<b>254</b>	<b>1/6/2002 9:17:00 PM</b>

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# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01130134**

**Name: Jerry Miller**

**Address: 1175 Grimes Mill Rd**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/5/02 12:56:10 AM</b>	<b>247</b>	<b>12/26/2001 4:14:58 PM</b>	<b>254</b>	<b>12/21/2001 7:31:35 AM</b>
<b>1/20/02 1:13:00 AM</b>	<b>247</b>	<b>1/6/2002 10:42:04 AM</b>	<b>254</b>	<b>1/18/2002 10:34:54 PM</b>

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# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01120794**

**Name: Eugene McCoy**

**Address: Box 2690**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/5/02 1:02:58 AM</b>	<b>247</b>	<b>12/21/2001 11:29:39 AM</b>	<b>256</b>	<b>1/1/2002 1:45:26 PM</b>
<b>1/20/02 2:32:28 AM</b>	<b>248</b>	<b>1/5/2002 4:52:32 PM</b>	<b>255</b>	<b>1/5/2002 2:22:41 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01050697**

**Name: Thomas Yocum**

**Address: Box 625**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/5/02 4:14:58 AM</b>	<b>247</b>	<b>12/22/2001 5:40:08 PM</b>	<b>260</b>	<b>12/21/2001 7:40:49 AM</b>
<b>1/20/02 2:55:01 AM</b>	<b>245</b>	<b>1/8/2002 5:41:07 PM</b>	<b>257</b>	<b>1/8/2002 11:22:46 PM</b>

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# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01120779**

**Name: Linda Patton**

**Address: Barn Tonkin Rd**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/1/02 2:03:32 AM</b>	<b>245</b>	<b>12/31/2001 6:55:48 AM</b>	<b>250</b>	<b>12/31/2001 10:45:32 AM</b>
<b>1/3/02 2:30:38 AM</b>	<b>245</b>	<b>1/1/2002 5:29:09 PM</b>	<b>251</b>	<b>1/2/2002 3:46:20 PM</b>
<b>1/5/02 3:35:43 AM</b>	<b>243</b>	<b>1/3/2002 4:19:23 AM</b>	<b>251</b>	<b>1/3/2002 11:48:10 AM</b>
<b>1/15/02 3:50:23 AM</b>	<b>242</b>	<b>1/6/2002 5:46:01 PM</b>	<b>251</b>	<b>1/5/2002 2:20:38 PM</b>
<b>1/29/02 2:11:14 AM</b>	<b>244</b>	<b>1/17/2002 6:59:10 PM</b>	<b>251</b>	<b>1/15/2002 11:55:54 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01061160**

**Name: Mike Hall**

**Address: 136 Mapleridge**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/5/02 3:38:47 AM</b>	<b>245</b>	<b>12/21/2001 6:26:55 AM</b>	<b>256</b>	<b>1/2/2002 11:52:27 AM</b>
<b>1/20/02 4:35:38 AM</b>	<b>246</b>	<b>1/6/2002 5:50:44 PM</b>	<b>255</b>	<b>1/5/2002 2:03:47 PM</b>



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# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01050415**

**Name: Mary Ritchie**

**Address: Donaldson Rd**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/1/02 4:22:47 AM</b>	<b>247</b>	<b>12/31/2001 6:03:50 AM</b>	<b>254</b>	<b>12/31/2001 8:50:38 AM</b>
<b>1/3/02 3:48:55 AM</b>	<b>242</b>	<b>1/2/2002 6:32:10 PM</b>	<b>254</b>	<b>1/2/2002 8:50:50 AM</b>
<b>1/5/02 1:53:04 AM</b>	<b>246</b>	<b>1/3/2002 4:10:58 AM</b>	<b>254</b>	<b>1/3/2002 7:57:15 AM</b>
<b>1/15/02 12:30:09 AM</b>	<b>243</b>	<b>1/5/2002 8:41:54 PM</b>	<b>253</b>	<b>1/5/2002 11:25:50 AM</b>
<b>1/29/02 1:19:45 AM</b>	<b>244</b>	<b>1/19/2002 4:25:12 PM</b>	<b>253</b>	<b>1/15/2002 8:51:59 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01060011**

**Name: Al Reed**

**Address: 335 Ferry Rd**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/5/02 2:51:49 AM</b>	<b>245</b>	<b>12/21/2001 5:31:37 AM</b>	<b>255</b>	<b>12/22/2001 2:15:03 AM</b>
<b>1/20/02 2:21:27 AM</b>	<b>245</b>	<b>1/5/2002 8:26:10 PM</b>	<b>255</b>	<b>1/15/2002 7:34:12 AM</b>

---

# Voltage Min/Max Report

*Capture Dates Between 1/1/02 And 1/31/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01130324**

**Name: Steve Durkin**

**Address: 6296 VanMeter**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>1/5/02 4:02:44 AM</b>	<b>244</b>	<b>12/23/2001 7:57:32 AM</b>	<b>254</b>	<b>12/21/2001 8:31:34 AM</b>
<b>1/20/02 1:05:18 AM</b>	<b>244</b>	<b>1/7/2002 5:58:29 AM</b>	<b>254</b>	<b>1/5/2002 2:04:14 PM</b>

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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01110372**

**Name: Billy McGuire**

**Address: Box 291**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/4/02 3:47:00 AM</b>	<b>245</b>	<b>5/31/2002 8:50:33 PM</b>	<b>255</b>	<b>5/22/2002 11:16:58 PM</b>
<b>6/18/02 2:28:00 AM</b>	<b>244</b>	<b>6/9/2002 9:02:15 PM</b>	<b>255</b>	<b>6/17/2002 8:48:48 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01102253**

**Name: LeeRay Adams**

**Address: 2188 Ky Hwy 302**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/4/02 4:36:56 AM</b>	<b>240</b>	<b>5/23/2002 8:36:16 PM</b>	<b>253</b>	<b>5/20/2002 5:41:53 AM</b>
<b>6/19/02 3:32:52 AM</b>	<b>238</b>	<b>6/11/2002 3:33:12 PM</b>	<b>253</b>	<b>6/17/2002 6:22:46 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**01060878**

**Tommy Stull**

**Address: 10067 Stulltown Rd**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/18/02 12:39:13 AM</b>	<b>245</b>	<b>6/4/2002 12:27:32 PM</b>	<b>255</b>	<b>5/24/2002 1:37:50 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01110017**

**Name: Michael Williams**

**Address: 5345 White & Concrigh**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/19/02 3:05:06 AM</b>	<b>243</b>	<b>5/23/2002 7:01:32 AM</b>	<b>253</b>	<b>5/20/2002 2:54:24 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01130134**

**Name: Jerry Miller**

**Address: 1175 Grimes Mill Rd**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/19/02 2:53:12 AM</b>	<b>242</b>	<b>6/3/2002 2:05:21 PM</b>	<b>254</b>	<b>5/22/2002 7:49:04 AM</b>



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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01120794**

**Name: Eugene McCoy**

**Address: Box 2690**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/19/02 4:11:06 AM</b>	<b>243</b>	<b>6/11/2002 1:47:47 PM</b>	<b>256</b>	<b>5/20/2002 10:53:14 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01050697**

**Name: Thomas Yocum**

**Address: Box 625**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/4/02 2:44:33 AM</b>	<b>246</b>	<b>5/25/2002 10:47:41 AM</b>	<b>256</b>	<b>5/20/2002 10:28:35 PM</b>
<b>6/19/02 2:45:10 AM</b>	<b>247</b>	<b>6/4/2002 8:04:21 AM</b>	<b>256</b>	<b>6/8/2002 1:56:07 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01120779**

**Name: Linda Patton**

**Address: Barn Tonkin Rd**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/4/02 2:04:51 AM</b>	<b>242</b>	<b>5/25/2002 9:59:46 AM</b>	<b>251</b>	<b>5/21/2002 11:04:12 PM</b>
<b>6/18/02 4:19:13 AM</b>	<b>241</b>	<b>6/4/2002 4:04:16 PM</b>	<b>251</b>	<b>6/8/2002 5:58:04 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01061160**

**Name: Mike Hall**

**Address: 136 Mapleridge**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/4/02 3:11:43 AM</b>	<b>244</b>	<b>6/3/2002 9:36:38 PM</b>	<b>254</b>	<b>5/20/2002 2:47:50 PM</b>
<b>6/19/02 2:47:46 AM</b>	<b>244</b>	<b>6/9/2002 2:54:25 PM</b>	<b>253</b>	<b>6/6/2002 11:43:10 PM</b>

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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01050415**

**Name: Mary Ritchie**

**Address: Donaldson Rd**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/4/02 1:30:20 AM</b>	<b>240</b>	<b>6/3/2002 10:54:27 AM</b>	<b>253</b>	<b>5/22/2002 12:04:08 AM</b>
<b>6/18/02 2:26:15 AM</b>	<b>242</b>	<b>6/10/2002 11:03:06 AM</b>	<b>264</b>	<b>6/14/2002 12:00:11 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01060011**

**Name: Al Reed**

**Address: 335 Ferry Rd**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/19/02 3:32:14 AM</b>	<b>244</b>	<b>5/20/2002 8:06:26 AM</b>	<b>255</b>	<b>5/22/2002 8:33:11 AM</b>

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# Voltage Min/Max Report

*Capture Dates Between 6/1/02 And 6/30/02*

*Sorted By: Capture Date - Ascending*

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**LINK: 01130324**

**Name: Steve Durkin**

**Address: 6296 VanMeter**

<b>Capture Date And</b>	<b>Min Voltage</b>	<b>Date Time</b>	<b>Max Voltage</b>	<b>Date Time</b>
<b>6/4/02 2:37:54 AM</b>	<b>244</b>	<b>5/22/2002 6:15:52 AM</b>	<b>254</b>	<b>5/20/2002 11:34:32 PM</b>
<b>6/19/02 3:14:30 AM</b>	<b>244</b>	<b>6/5/2002 8:47:19 AM</b>	<b>254</b>	<b>6/16/2002 3:40:56 AM</b>