



Dominion[®]

**Rebuttal Testimony,
Exhibits and Schedules of
Virginia Electric and Power
Company**

Before the State Corporation
Commission of Virginia

Surry-Skiffes Creek 500 kV
Transmission Line

Skiffes Creek-Wheaton 230 kV
Transmission Line

Skiffes Creek 500 kV-230 kV-115 kV
Switching Station

Application No. 257

Case No. PUE-2012-00029

Filed: March 14, 2013

PUBLIC VERSION

VOLUME IV OF VI

Revised Study #	Study Year	Units Retired ⁶	Critical System Condition ⁵	Proposed Projects Included	Study
Alternative Analysis^{2, 3, 4}					
<u>Alternatives Studied</u>					
500 kV Proposed - Surry to Skiffes Creek 500 kV Overhead					
Alternative A - Single Circuit 230 kV UG Line based on 1000 MVA					
Alternative B - Double Circuit 230 kV UG Line based on 1000 MVA					
1	2015	All retirements	No CSC	Base ⁷	500 kV Proposed ⁹
2	2015	All retirements	SU2	Base ⁷	500 kV Proposed ⁹
3	2015	All retirements	No CSC	Base ⁷ + Project	500 kV Proposed ⁹
4	2015	All retirements	SU2	Base ⁷ + Project	500 kV Proposed ⁹
5	2015	All retirements	SU1	Base ⁷	230 kV Alternatives ⁹
6	2015	All retirements	No CSC	Base ⁷ + Alt. A/Alt. B/Alt. C ¹	230 kV Alternatives ⁹
7	2015	All retirements	SU1	Base ⁷ + Alt. A/Alt. B/Alt. C ¹	230 kV Alternatives ⁹
8	2021	All retirements	No CSC	Base ⁷	500 kV Proposed
9	2021	All retirements	SU2	Base ⁷	500 kV Proposed
10	2021	All retirements	No CSC	Base ⁷ + Project	500 kV Proposed
11	2021	All retirements	SU2	Base ⁷ + Project	500 kV Proposed
12	2021	All retirements	SU1	Base ⁷	230 kV Alternatives
13	2021	All retirements	No CSC	Base ⁷ + Alt. A/Alt. B/Alt. C ¹	230 kV Alternatives
14	2021	All retirements	SU1	Base ⁷ + Alt. A/Alt. B/Alt. C ¹	230 kV Alternatives
Generation Alternative Analysis^{2, 3, 4}					
<u>Special Study Condition</u>					
Yorktown Unit 3 to be used as proxy generation to study two 230 kV UG alternatives					
<u>Alternatives Studied</u>					
Alternative A - Single Circuit 230 kV UG Line based on 1000 MVA					
Alternative B - Double Circuit 230 kV UG Line based on 1000 MVA per circuit					
15	2015	All retirements	No CSC	Base ⁷	230 kV + Generation ^{8, 9}
16	2015	All retirements	SU1	Base ⁷	230 kV + Generation ^{8, 9}
17	2015	All retirements	No CSC	Base ⁷ + Alt. A/Alt. B/Alt. C ¹	230 kV + Generation ^{8, 9}
18	2015	All retirements	SU1	Base ⁷ + Alt. A/Alt. B/Alt. C ¹	230 kV + Generation ^{8, 9}
19	2021	All retirements	No CSC	Base ⁷	230 kV + Generation ⁸
20	2021	All retirements	SU1	Base ⁷	230 kV + Generation ⁸
21	2021	All retirements	No CSC	Base ⁷ + Alt. A/Alt. B/Alt. C ¹	230 kV + Generation ⁸
22	2021	All retirements	SU1	Base ⁷ + Alt. A/Alt. B/Alt. C ¹	230 kV + Generation ⁸
Analysis of Proposed 500 kV Without Retirements^{2, 3, 4}					
<u>Alternatives Studied</u>					
500 kV Proposed - Surry to Skiffes Creek 500 kV Overhead					
23	2021	No retirements	No CSC	Base ⁷	500 kV Proposed
24	2021	No retirements	SU2	Base ⁷	500 kV Proposed
25	2021	No retirements	No CSC	Base ⁷ + Project	500 kV Proposed
26	2021	No retirements	SU2	Base ⁷ + Project	500 kV Proposed

Notes This matrix of studies is the same as that provided in Company Witness Peter Nedwick's Rebuttal Schedule 2, without the notes. See Company Witness Nedwick's Rebuttal Schedule 2 for the notes associated with this matrix.



PUE-2012-00029

2013 Power Flow Cases Requested by Hearing Examiner

Additional Analyses Conducted

- **500 kV Proposed - Surry to Skiffes Creek**
500 kV Overhead
- **Alternative A – Hybrid Single Circuit 230 kV**
UG Line based on 1000 MVA
- **Alternative B – Hybrid Double Circuit 230 kV**
UG Line based on 1000 MVA/circuit
- **Alternative C - Rebuild of Lines #214 and**
#263

Additional Analyses Conducted

- **Alternative A – Hybrid Single Circuit 230 kV UG Line based on 1000 MVA Plus Generation**
- **Alternative B – Hybrid Double Circuit 230 kV UG Line based on 1000 MVA/circuit Plus Generation**
- **Alternative C - Rebuild of Lines #214 and #263 Plus Generation**
- **Stand Alone Generation – Add generation to Yorktown**



Assumptions

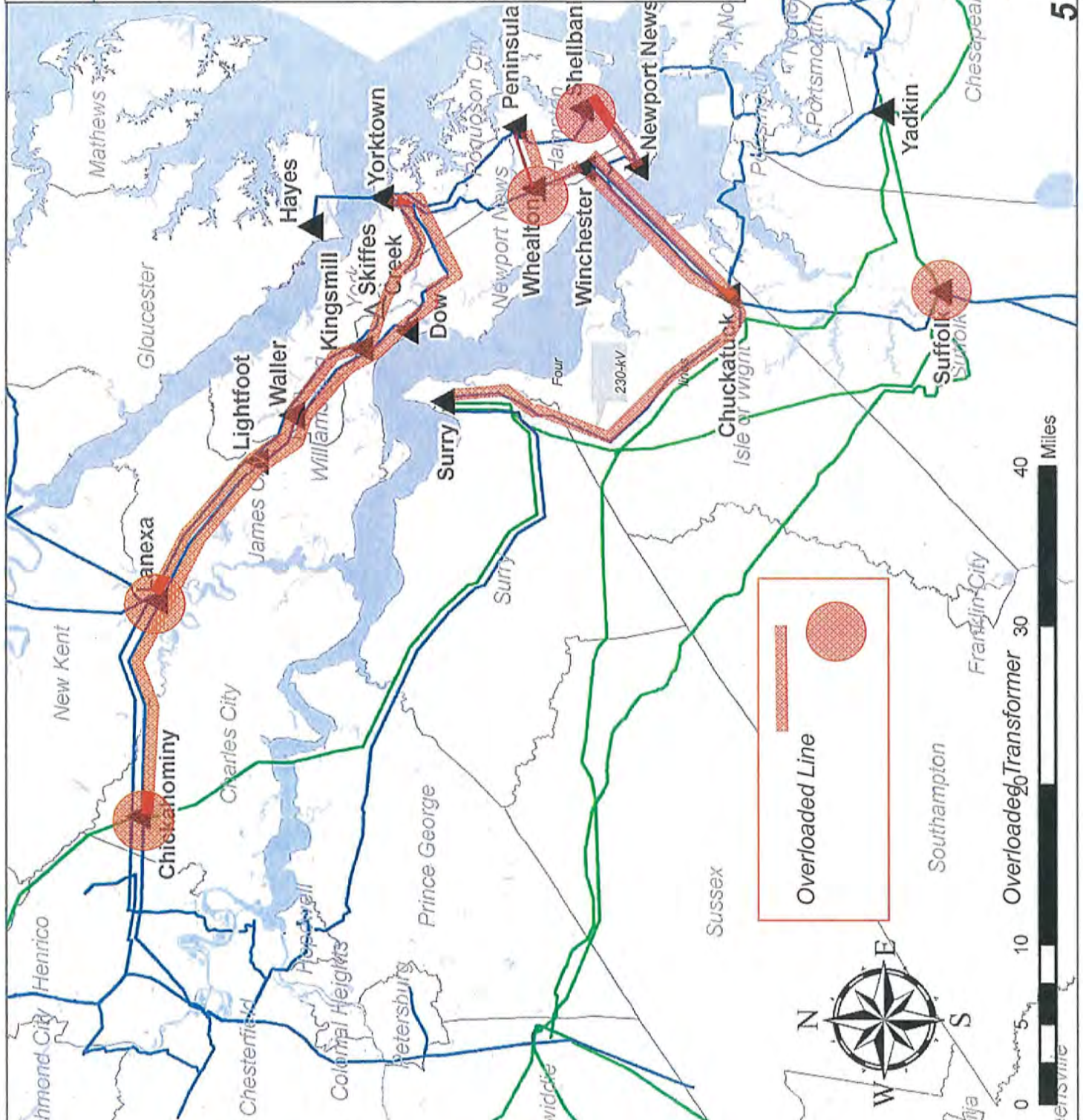
- **Consistent with Hearing Examiner's January 30 Ruling as set forth in Rebuttal Schedule 2 of Company Witness Nedwick's Rebuttal Testimony**

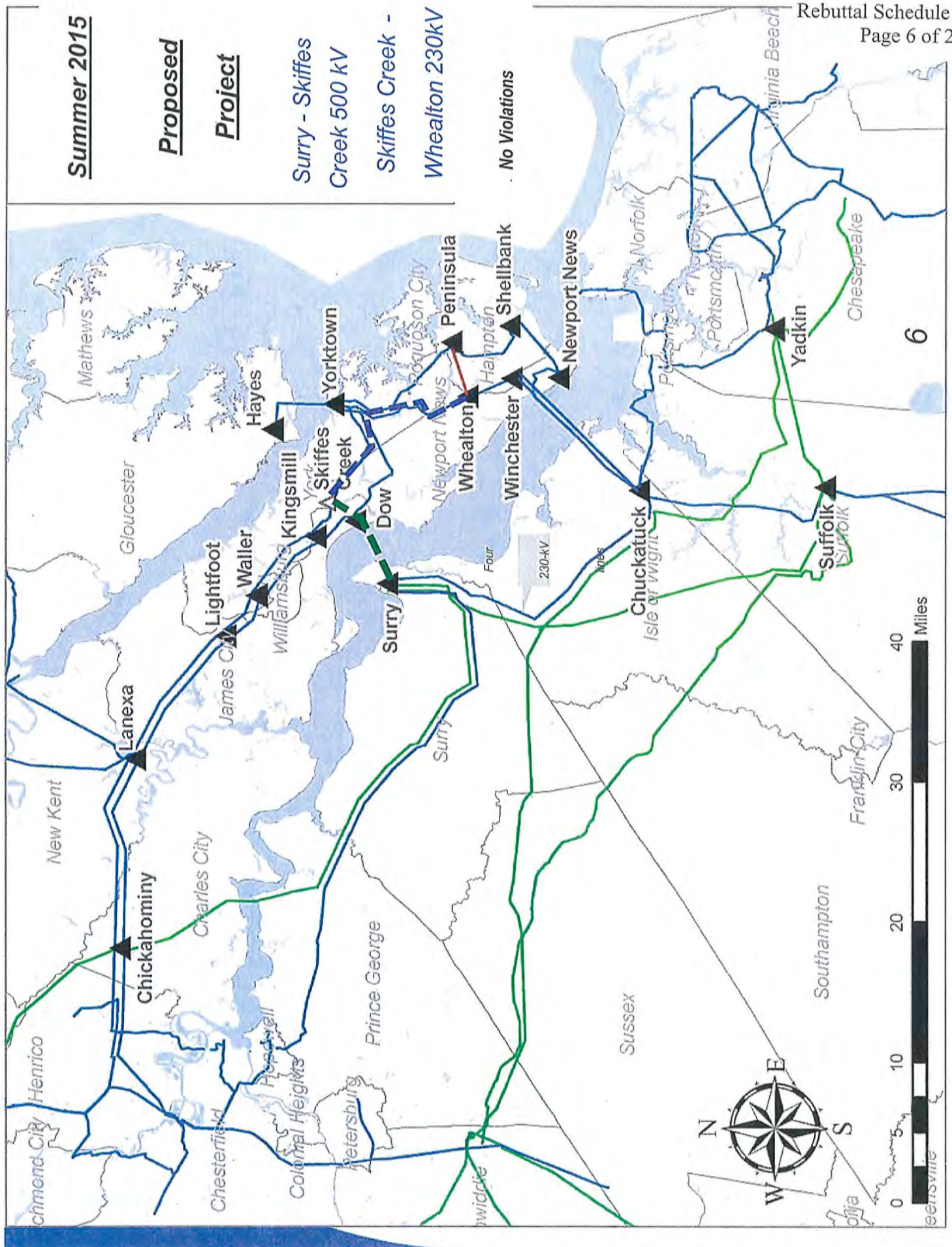
Summer 2015

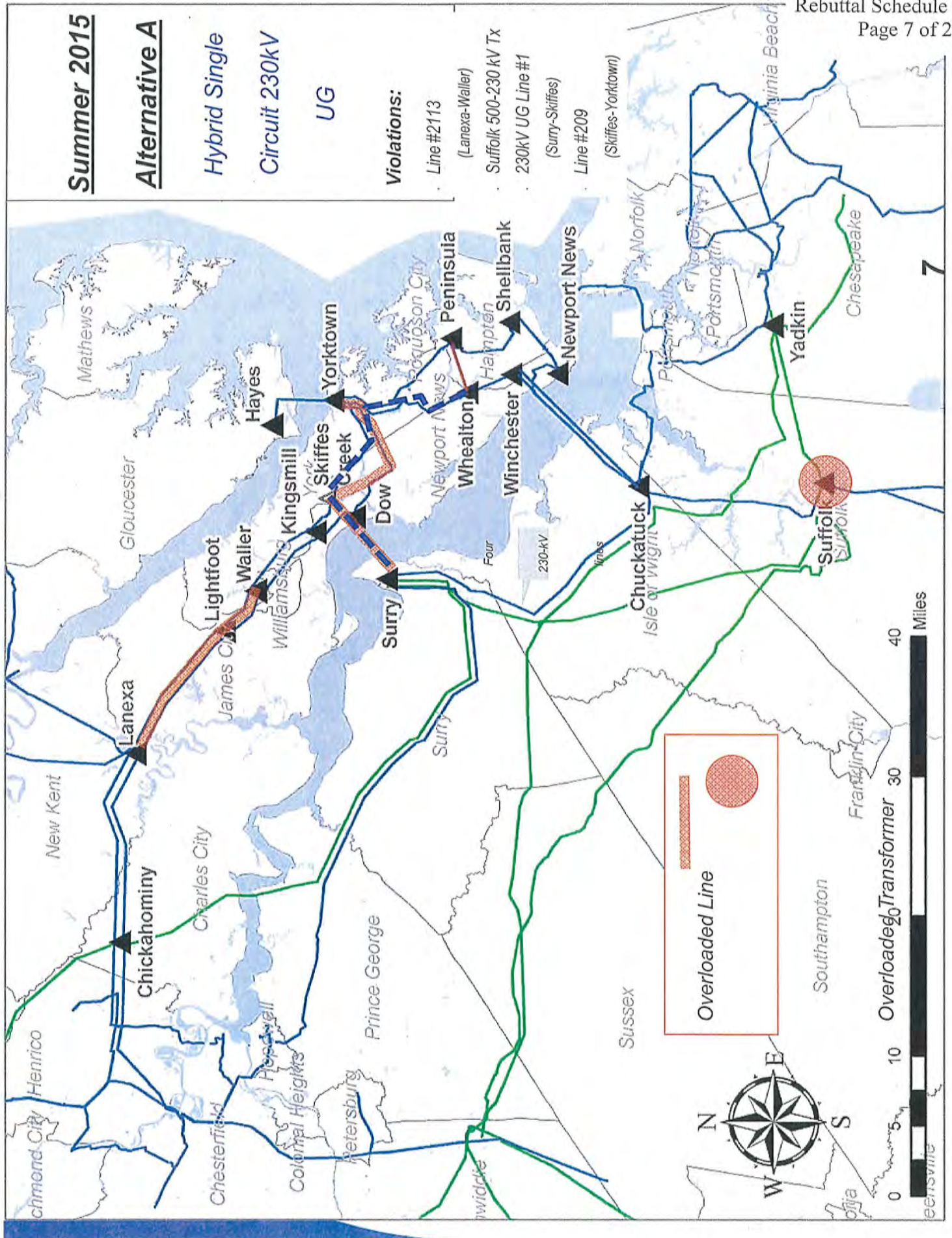
Generation Retirements (Basecase)

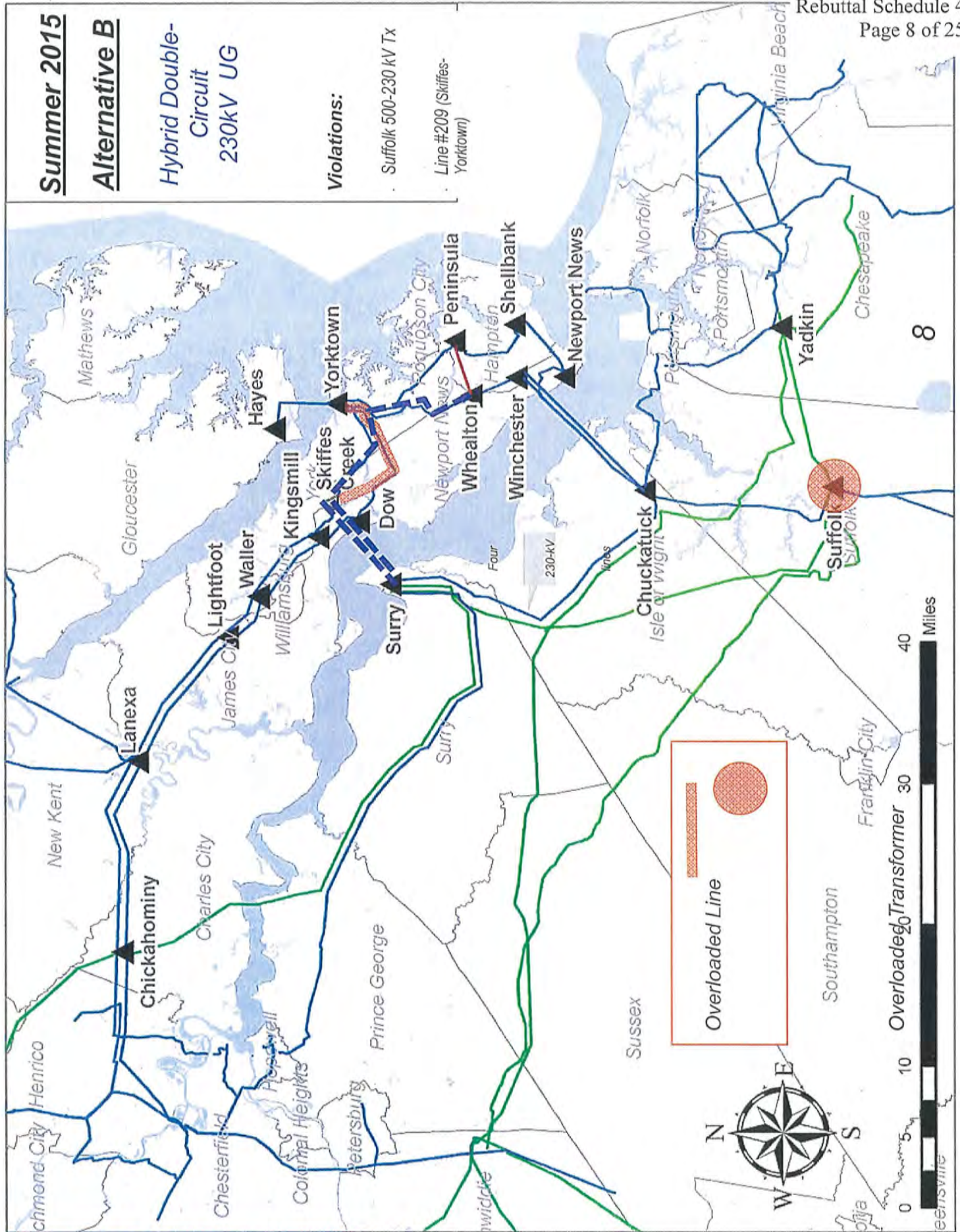
Overloads:

- Line #2113 (Lanexa-Waller)
- Line #2102 (Chickahominy - Waller)
- Line #214 (Surry - Winchester)
- Line #263 (Chuckatuck - Nprt. News)
- Line #209 (Waller - Yorktown)
- Line #285 (Waller- Yorktown)
- Suffolk 500-230 kV Tx
- Line #34 (Lanexa-Yorktown)
- Line #99 (Peninsula - Wheelton)
- Wheelton 230-115 kV Tx
- Shellbank 230-115 kV Tx
- Line #234 (Wheelton - Winchester)
- Line #261 (Newport News - Shellbank)
- Chickahominy 500-230 kV Tx
- Lanexa 230-115 kV Tx
- Line #292 (Yorktown - Wheelton)
- Line #289 (Chuckatuck - Suffolk)
- Line #2076 (Birchwood - No. Neck)









Summer 2015

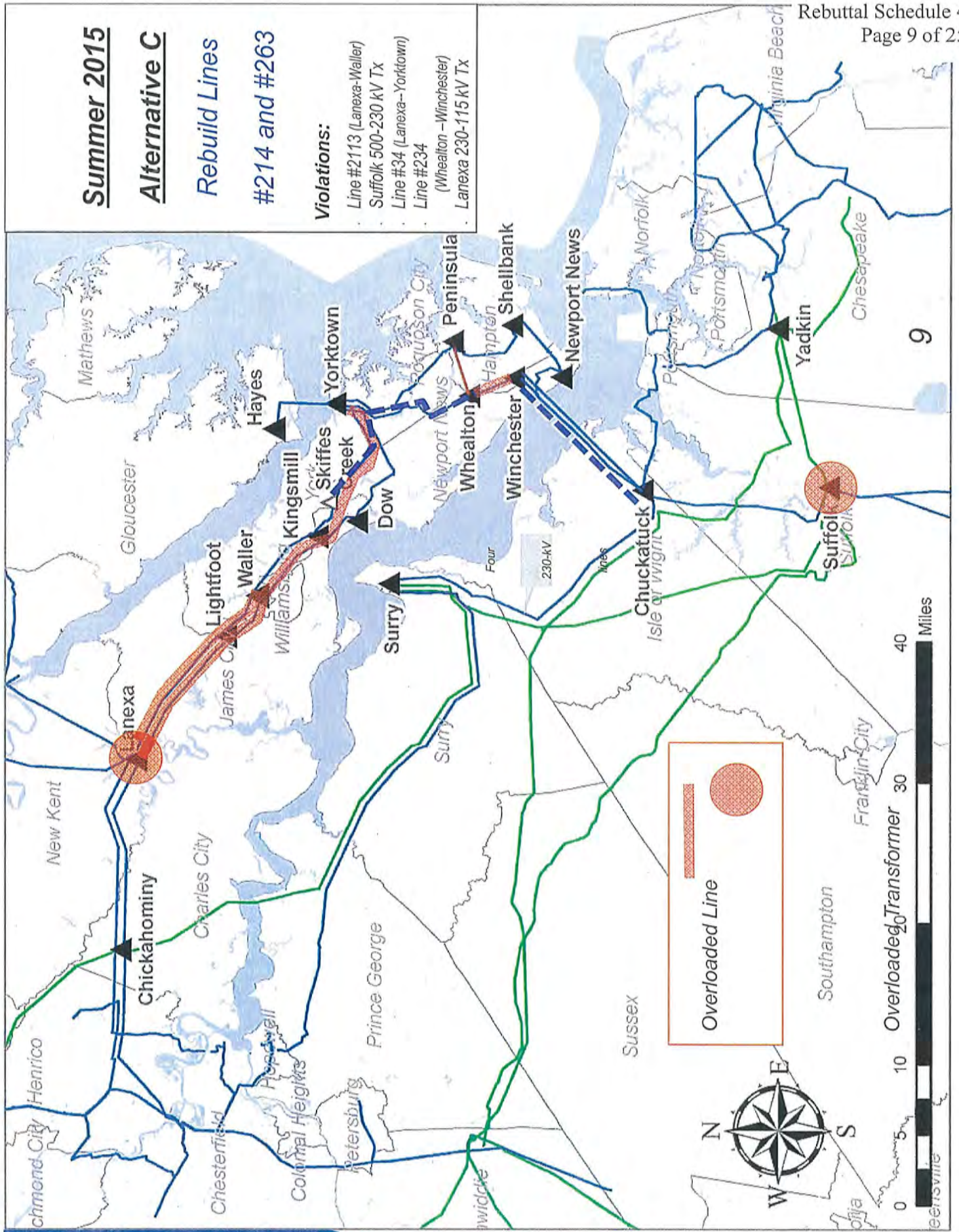
Alternative C

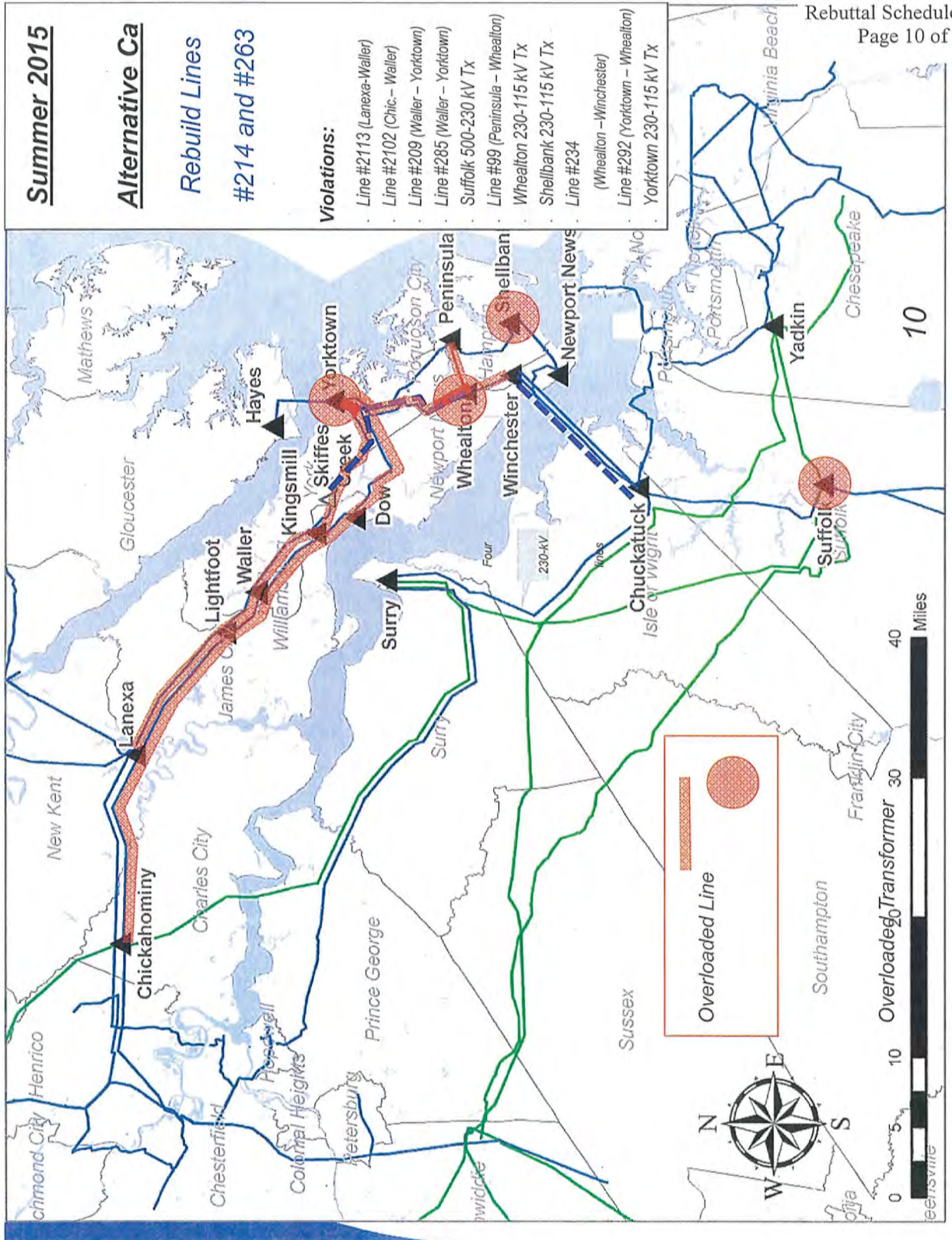
Rebuild Lines

#214 and #263

Violations:

- Line #2113 (Lanexa-Waller)
- Suffolk 500-230 kV Tx
- Line #34 (Lanexa-Yorktown)
- Line #234
- (Wheaton - Winchester)
- Lanexa 230-115 kV Tx





Summary of Transmission Violations¹

Deficiency	Basecase	Alternate A	Alternate B	Alternate C	Alternate Ca	Proposed Project
Line # 2113 (Lanexa-Waller)	Yes	Yes		Yes	Yes	
Line 2102 (Chickahominy – Waller)	Yes			Yes	Yes	
Line #214 (Surry – Winchester)	Yes					
Line #263 (Chuckatuk – Newport News)	Yes					
Line #209 (Waller-Yorktown)	Yes			Yes	Yes	
Line #285 (Waller- Yorktown)	Yes				Yes	
Suffolk 500-230 kV Tx	Yes	Yes	Yes	Yes	Yes	
230 kV UG Line #1 (Surry - Skiffes)		Yes				

1. "Yes" means one or more NERC Reliability Violations in 2015 and/or 2021

Summary of Transmission Violations¹

Deficiency	Basecase	Alternate A	Alternate B	Alternate C	Alternate Ca	Proposed Project
Line # 34 (Lanexa--Yorktown)	Yes			Yes		
Line # 58 (Lanexa--Yorktown)	Yes			Yes		
Line #209(Skiffes – Yorktown)		Yes	Yes			
Line #34(Skiffes – Yorktown)			Yes			
Line #99 (Peninsula – Whealton)	Yes			Yes	Yes	Yes
Whealton 230-115 kV Tx	Yes	Yes	Yes	Yes	Yes	
Shellbank 230-115 kV Tx	Yes			Yes	Yes	
Line #234 (Whealton – Winchesters)	Yes			Yes	Yes	
Line #261(Newport News – Shellbank)	Yes					

1. "Yes" means one or more NERC Reliability Violations in 2015 and/or 2021

Summary of Transmission Violations¹

Deficiency	Basecase	Alternate A	Alternate B	Alternate C	Alternate Ca	Proposed Project
Chickahominy 500-230 kV Tx	Yes					
Lanexa 230-115 kV Tx	Yes			Yes		
Line #292 (Yorktown – Wheaton)	Yes				Yes	
Line #289 (Chuckatuk – Suffolk)	Yes					
Line #2076 (Birchwood – Northern Neck)	Yes					
Yorktown 230-115 kV Tx					Yes	
Skiffes Creek 230 kV SVC				Yes		

1. "Yes" means one or more NERC Reliability Violations in 2015 and/or 2021



Basecase: Number of Thermal Violations

Study Year	Study #	Critical System Condition	NERC TPL Category Tests			
			A (N-0)	B (N-1)	C (N-1-1 & Tower Line)	D
2015	1	No CSC	0	39	350	21
2015	2	SU2	0	62	N/A	N/A
2015	5	SU1	1	93	N/A	N/A
2021	8	No CSC	0	55	559	43
2021	9	SU2	0	49	N/A	N/A
2021	12	SU1	0	184	N/A	N/A

Proposed Project: Number of Thermal Violations

Study Year	Study #	Critical System Condition	NERC TPL Category Tests			
			A (N-0)	B (N-1)	C (N-1-1 & Tower Line)	D
2015	3	No CSC	0	0	0	0
2015	4	SU2	0	0	N/A	N/A
2021	10	No CSC	0	0	2	0
2021	11	SU2	0	0	N/A	N/A

Alternative A: Number of Thermal Violations

Study Year	Study #	Critical System Condition	NERC TPL Category Tests			
			A (N-0)	B (N-1)	C (N-1-1 & Tower Line)	D
2015	6A	No CSC	0	0	9	3
2015	7A	SU1	0	3	N/A	N/A
2021	13A	No CSC	0	9	113	7
2021	14A	SU1	0	1	N/A	N/A

Alternative B: Number of Thermal Violations

Study Year	Study #	Critical System Condition	NERC TPL Category Tests			
			A (N-0)	B (N-1)	C (N-1-1 & Tower Line)	D
2015	6B	No CSC	0	1	4	0
2015	7B	SU1	0	2	N/A	N/A
2021	13B	No CSC	0	1	12	0
2021	14B	SU1	0	0	N/A	N/A



Alternative C: Number of Thermal Violations

Study Year	Study #	Critical System Condition	NERC TPL Category Tests			
			A (N-0)	B (N-1)	C (N-1-1 & Tower Line)	D
2015	6C	No CSC	0	5	122	8
2015	7C	SU1	0	70	N/A	N/A
2021	13C	No CSC	0	12	182	13
2021	14C	SU1	0	39	N/A	N/A

Alternative Ca – Rebuild of Line #214 and #263 (Open L 34 & 58 System Reconfiguration): Number of Thermal Violations

Study Year	Study #	Critical System Condition	NERC TPL Category Tests			
			A (N-0)	B (N-1)	C (N-1-1 & Tower Line)	D
2015	6Ca	No CSC	0	3	84	8
2015	7Ca	SU1	0	5	N/A	N/A
2021	13Ca	No CSC	0	10	149	13
2021	14Ca	SU1	0	4	N/A	N/A

230 kV Alternative A + Generation: Number of Thermal Violations

Study Year	Study #	Critical System Condition	NERC TPL Category Tests			
			A (N-0)	B (N-1)	C (N-1-1 & Tower Line)	D
2015	17A	No CSC	0	0	0	0
2015	18A	SU1	0	0	N/A	N/A
2021	21A	No CSC	0	0	0	0
2021	22A	SU1	0	0	N/A	N/A

Alternative requires 1,008 MW in 2015 and 1,449 MW (2 units min,
1 unit $\geq$ 87 MW) in 2021

230 kV Alternative B + Generation: Number of Thermal Violations

Study Year	Study #	Critical System Condition	NERC TPL Category Tests			
			A (N-0)	B (N-1)	C (N-1-1 & Tower Line)	D
2015	17B	No CSC	0	0	0	0
2015	18B	SU1	0	0	N/A	N/A
2021	21B	No CSC	0	0	0	0
2021	22B	SU1	0	0	N/A	N/A

Alternative requires 159 MW in 2015 and 551 MW (2 units min, 1 unit $\geq$ 27 MW) in 2021

230 kV Alternative C + Generation: Number of Thermal Violations

Study Year	Study #	Critical System Condition	NERC TPL Category Tests			
			A (N-0)	B (N-1)	C (N-1-1 & Tower Line)	D
2015	17C	No CSC	0	0	0	0
2015	18C	SU1	0	0	N/A	N/A
2021	21C	No CSC	0	0	0	0
2021	22C	SU1	0	0	N/A	N/A

Alternative requires 552 MW (2 units min, 1 unit $\geq$ 56 MW) in 2015
and 505 MW (2 units min, 1 unit $\geq$ 139 MW) in 2021

Stand-Alone Generation Option: Number of Thermal Violations

Study Year	Study #	Critical System Condition	NERC TPL Category Tests			
			A (N-0)	B (N-1)	C (N-1-1 & Tower Line)	D
2015	15	No CSC	0	0	0	0
2015	16	SU1	0	0	N/A	N/A
2021	19	No CSC	0	0	0	0
2021	20	SU1	0	0	N/A	N/A

Alternative requires 620 MW (2 units min; lose 1 unit & maintain $\geq$ 295 MW) in 2015 and 620 MW (2 units min; lose 1 unit & maintain $\geq$ 295 MW) in 2021

Proposed Project Without Retirements: Number of Thermal Violations

Study Year	Study #	Critical System Condition	NERC TPL Category Tests			
			A (N-0)	B (N-1)	C (N-1-1 & Tower Line)	D
2021	23	No CSC	0	0	2	11
2021	24	SU2	0	4	N/A	N/A
2021	25	No CSC	0	0	0	0
2021	26	SU2	0	0	N/A	N/A



Dominion®

CATEGORY B

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:27 < UDF000.0 >
 2015 SUMMER BASE CASE (LTS615S11) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:25 <BRV003.0>
 2015 SUMMER BASE CASE (LTS615S11) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV
 Case.File X:\S2015\sum 2015(2013LF)_base_wpre_CSCNOSURRY230_230 kv ALT A.sav
 Subsys.File X:\S2015\drv.sub
 Monit.File X:\S2015\vapsys.mon
 Contin.File X:\S2015\vapsys.con
 Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 93.5 % of nominal rating

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314391	6LIGH209	230	314415 6WALR209	230	LN	LN	473.7	330.6	470.0	100.8	371	314214 6CHCKAHM 230 314390 6LIGH285 230 1
314757	3GORDNVL	115	314776 3SOMRSET	115	LN	LN	238.7	139.5	239.0	99.9	1102	314766 6LOUISA 230 314777 6S ANNA 230 1
314559	3CAROLINA	115	314581 3JACKSON	115	LN	LN	117.5	76.4	118.0	99.6	441	314266 6NORTHAMPTON 230 314599 6ROA VAL 230 1
314212	6FERRIVER	230	314222 6HANOVER	230	LN	LN	788.4	612.0	797.0	98.9	285	314138 6MINE RD 230 314197 6LDYSMTL 230 1
314559	3CAROLINA	115	314581 3JACKSON	115	LN	LN	116.4	76.4	118.0	98.6	440	314266 6NORTHAMPTON 230 314569 6EARLEYS 230 1
314757	3GORDNVL	115	314776 3SOMRSET	115	LN	LN	234.1	139.5	239.0	98.0	401	314232 6NO ANNA 230 314766 6LOUISA 230 1
304223	3ROCKYMT115T	115	314554 3BTLEBRO	115	LN	LN	91.8	19.3	94.0	97.7	850	314559 3CAROLINA 115 314578 3HORNRTN 115 1
314581	3JACKSON	115	314626 3WOODLND	115	LN	LN	114.9	73.8	118.0	97.4	441	314266 6NORTHAMPTON 230 314599 6ROA VAL 230 1
314581	3JACKSON	115	314626 3WOODLND	115	LN	LN	113.8	73.8	118.0	96.4	440	314266 6NORTHAMPTON 230 314569 6EARLEYS 230 1
314461	3DEEPC46	115	314513 3YADKIN	115	LN	LN	346.9	232.0	360.0	96.4	691	314449 6CHESAPK 230 314514 6YADKIN 230 1
314391	6LIGH209	230	314415 6WALR209	230	LN	LN	445.7	330.6	470.0	94.8	612	314390 6LIGH285 230 314413 6WALR285 230 1
314212	6FERRIVER	230	314222 6HANOVER	230	LN	LN	754.4	612.0	797.0	94.7	282	314137 6FREDBRG 230 314138 6MINE RD 230 1
314072	6EL VIEW	230	314925 8PL VIEW	500	TR	TR	938.7	810.4	993.6	94.5	307	314171 6BRAMBL 230 314933 8BRAMBLETON 500 1

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:27 < UDF000.0 >
2015 SUMMER BASE CASE (LITSG15S11) REV. 04/02/2012
2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV

AC Bus Voltage Violations

ESS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:27 <VOW003.0>

2015 SUMMER BASE CASE (LITSG15S11) REV. 04/02/2012
2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV

Case File X:\s2015\sum_2015(2013LF)_base_wpre_CSCNO SURRY230_230 kv ALT A.sav

Subsys File X:\s2015\vdvp.sub

Monit. File X:\s2015\vdvsys.mon

Contn. File X:\s2015\vdvsys.con

Exclud. File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	Lowlimi t	Upplimi t	VoltDro p	Voltrls e	Viol	Ncon	Contingency Description
315218	LCUNINGC	18.0	345	366	1.0725	1.0725	0.9300	1.0700	1.0189	1.1261	H	**	Base Case **
314014	3CANNONB	115.0	345	353	0.9074	1.0038	0.9300	1.0700	0.9536	1.0540	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314051	3LOMA197	115.0	345	353	0.9077	1.0031	0.9300	1.0700	0.9530	1.0533	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314148	3MTCR197	115.0	345	353	0.9077	1.0027	0.9300	1.0700	0.9526	1.0529	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314155	3CANBR T	115.0	345	353	0.9076	1.0032	0.9300	1.0700	0.9531	1.0534	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314158	3GOWM197	115.0	345	353	0.9078	1.0026	0.9300	1.0700	0.9525	1.0528	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314051	3LOMA197	115.0	345	353	0.9249	1.0031	0.9300	1.0700	0.9530	1.0533	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314148	3MTCR197	115.0	345	353	0.9244	1.0027	0.9300	1.0700	0.9526	1.0529	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314155	3CANBR T	115.0	345	353	0.9244	1.0032	0.9300	1.0700	0.9531	1.0534	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314158	3GOWM197	115.0	345	353	0.9225	1.0026	0.9300	1.0700	0.9525	1.0528	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314160	1 TX503	13.2	345	353	1.1080	1.0007	0.9300	1.0700	0.9507	1.0508	HR	96	314025 1 TX500 13.2 314160 1 TX503 13.2 21
315001	1OMF A	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	175	314067 6OCCOQUN 230 314068 6OX 230 1
315002	1OMF B	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	175	314067 6OCCOQUN 230 314068 6OX 230 1
314118	3MINNIEV	115.0	345	353	0.9477	0.9988	0.9300	1.0700	0.9488	1.0487	D	179	314068 6OX 230 314167 3OX 115 1
314167	3OX	115.0	345	352	0.9478	1.0063	0.9300	1.0700	0.9560	1.0566	D	179	314068 6OX 230 314167 3OX 115 1
315008	1POSSM6A	18.0	345	353	0.9280	0.9388	0.9300	1.0700	0.8919	0.9858	L	191	314073 3POSSUM 115 314074 6POSSUM 230 1
315009	1POSSM6B	18.0	345	353	0.9280	0.9388	0.9300	1.0700	0.8919	0.9858	L	191	314073 3POSSUM 115 314074 6POSSUM 230 1
315008	1POSSM6A	18.0	345	353	0.9266	0.9388	0.9300	1.0700	0.8919	0.9858	L	204	314074 6POSSUM 230 315009 1POSSM6B 18.0 1
315008	1POSSM6A	18.0	345	353	0.9258	0.9388	0.9300	1.0700	0.8919	0.9858	L	206	314074 6POSSUM 230 315010 1POSSM6S 18.0 1
315009	1POSSM6B	18.0	345	353	0.9258	0.9388	0.9300	1.0700	0.8919	0.9858	L	206	314074 6POSSUM 230 315010 1POSSM6S 18.0 1
314118	3MINNIEV	115.0	345	353	0.9459	0.9988	0.9300	1.0700	0.9488	1.0487	D	255	314118 3MINNIEV 115 314167 3OX 115 1
314122	3SOWEGO	115.0	345	353	0.9509	1.0033	0.9300	1.0700	0.9531	1.0535	D	259	314122 3SOWEGO 115 314156 3BRISTER 115 1
314049	3LOMA172	115.0	345	353	0.9299	0.9848	0.9300	1.0700	0.9355	1.0340	LD	260	314123 3WELLGTN 115 314141 3LIBERTY 115 1
314123	3WELLGTN	115.0	345	353	0.9292	0.9873	0.9300	1.0700	0.9379	1.0367	LD	260	314123 3WELLGTN 115 314141 3LIBERTY 115 1
314147	3MTCR172	115.0	345	353	0.9297	0.9848	0.9300	1.0700	0.9356	1.0341	LD	260	314123 3WELLGTN 115 314141 3LIBERTY 115 1
314157	3GOWM172	115.0	345	353	0.9292	0.9858	0.9300	1.0700	0.9365	1.0351	LD	260	314123 3WELLGTN 115 314141 3LIBERTY 115 1
314122	3SOWEGO	115.0	345	353	0.9515	1.0033	0.9300	1.0700	0.9531	1.0535	D	263	314130 6BRISTER 230 314156 3BRISTER 115 1

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:27 < UDF000.0 >
 2015 SUMMER BASE CASE (LTS615511) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Upplimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314156	3BRISTER	115.0	345	353	0.9515	1.0062	0.9300	1.0700	0.9559	1.0565	D	263	314130 6BRISTER 230 314156 3BRISTER 115 1
314049	3LOMA172	115.0	345	353	0.9301	0.9848	0.9300	1.0700	0.9355	1.0340	D	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314123	3WELLOTN	115.0	345	353	0.9283	0.9873	0.9300	1.0700	0.9379	1.0367	LD	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314141	3LIBERTY	115.0	345	353	0.9283	0.9883	0.9300	1.0700	0.9389	1.0378	LD	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314147	3MCCR172	115.0	345	353	0.9299	0.9848	0.9300	1.0700	0.9356	1.0341	LD	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314157	3GOW172	115.0	345	353	0.9294	0.9858	0.9300	1.0700	0.9365	1.0351	LD	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314175	3NI RVER	115.0	345	363	0.9551	1.0143	0.9300	1.0700	0.9636	1.0650	D	275	314135 3CHANCE 115 314775 3NI RVER 115 1
314151	3SLABTWN	115.0	345	355	0.9530	1.0059	0.9300	1.0700	0.9556	1.0562	D	280	314136 3FREDERG 115 314151 3SLABTWN 115 1
315008	1POSSM6A	18.0	345	353	0.9262	0.9388	0.9300	1.0700	0.8919	0.9858	L	282	314137 6FREDERG 230 314138 6MINE RD 230 1
315009	1POSSM6B	18.0	345	353	0.9262	0.9388	0.9300	1.0700	0.8919	0.9858	L	282	314137 6FREDERG 230 314138 6MINE RD 230 1
315008	1POSSM6A	18.0	345	353	0.9244	0.9388	0.9300	1.0700	0.8919	0.9858	L	289	314142 6STAFORD 230 314145 6AQUI HARB B 230 1
315009	1POSSM6B	18.0	345	353	0.9244	0.9388	0.9300	1.0700	0.8919	0.9858	L	289	314142 6STAFORD 230 314145 6AQUI HARB B 230 1
314148	3MCCR197	115.0	345	353	0.9227	1.0027	0.9300	1.0700	0.9526	1.0529	LD	285	314148 3MCCR197 115 314155 3CANBR T 115 1
314158	3GOW197	115.0	345	353	0.9229	1.0026	0.9300	1.0700	0.9525	1.0528	LD	285	314148 3MCCR197 115 314155 3CANBR T 115 1
314176	6HARMONY	230.0	345	354	1.3290	1.0202	0.9300	1.0700	0.9692	1.0712	HR	318	314176 6HARMONY 230 314189 6PAFERMILL 230 1
314180	6HAYES	230.0	345	354	0.9456	1.0141	0.9300	1.0700	0.9634	1.0648	D	321	314180 6HAYES 230 314423 6YORKTWN 230 1
314259	3CAR56 1	115.0	345	362	1.5503	1.0184	0.9300	1.0700	0.9675	1.0693	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314524	3FRANKLN	115.0	345	360	1.0746	1.0221	0.9300	1.0700	0.9709	1.0732	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314526	3HANDSON	115.0	345	360	1.0787	1.0204	0.9300	1.0700	0.9694	1.0714	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314534	3S HAMEP	115.0	345	360	1.0767	1.0224	0.9300	1.0700	0.9713	1.0735	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314541	3WATKINS	115.0	345	360	1.0766	1.0234	0.9300	1.0700	0.9723	1.0746	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314558	3BOYKINS	115.0	345	362	1.0856	1.0159	0.9300	1.0700	0.9651	1.0667	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314587	3MARGT5V	115.0	345	362	1.2072	1.0154	0.9300	1.0700	0.9646	1.0661	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314599	3MURPHYS	115.0	345	362	1.0575	1.0059	0.9300	1.0700	0.9556	1.0562	R	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314604	3SEABORD	115.0	345	362	1.3307	1.0153	0.9300	1.0700	0.9645	1.0661	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314826	3WATKI 1	115.0	345	360	1.0771	1.0240	0.9300	1.0700	0.9728	1.0752	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314827	3WATKI 2	115.0	345	360	1.0771	1.0240	0.9300	1.0700	0.9728	1.0752	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314835	3CAROL 1	115.0	345	362	1.2515	1.0194	0.9300	1.0700	0.9685	1.0704	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
315115	1SHAMPT1	13.8	345	360	1.0483	0.9918	0.9300	1.0700	0.9422	1.0414	R	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
315083	1SPRUNCA	13.8	345	357	1.0172	0.9672	0.9300	1.0700	0.9188	1.0155	R	464	314275 6BEIMLEAD 230 314276 6BASIN 230 1
315085	1SPRUNCC	13.8	345	357	1.0186	0.9689	0.9300	1.0700	0.9205	1.0174	R	464	314275 6BEIMLEAD 230 314276 6BASIN 230 1
314328	6FLAZA	230.0	345	357	0.8959	1.0052	0.9300	1.0700	0.9549	1.0554	LD	566	314328 6FLAZA 230 314336 6SOUTWEST 230 1
314524	3FRANKLN	115.0	345	360	1.0743	1.0221	0.9300	1.0700	0.9709	1.0732	HR	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314527	3HOLLAND	115.0	345	360	1.0762	1.0100	0.9300	1.0700	0.9595	1.0606	HR	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314534	3S HAMEP	115.0	345	360	1.0707	1.0224	0.9300	1.0700	0.9713	1.0735	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314539	3UNCAMP	115.0	345	360	1.0774	1.0213	0.9300	1.0700	0.9703	1.0724	HR	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314541	3WATKINS	115.0	345	360	1.0729	1.0234	0.9300	1.0700	0.9723	1.0746	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314824	3UNCAM 1	115.0	345	360	1.0781	1.0220	0.9300	1.0700	0.9709	1.0731	HR	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314826	3WATKI 1	115.0	345	360	1.0734	1.0240	0.9300	1.0700	0.9728	1.0752	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314827	3WATKI 2	115.0	345	360	1.0734	1.0240	0.9300	1.0700	0.9728	1.0752	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
315115	1SHAMPT1	13.8	345	360	1.0420	0.9918	0.9300	1.0700	0.9422	1.0414	R	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314524	3FRANKLN	115.0	345	360	1.0808	1.0221	0.9300	1.0700	0.9709	1.0732	HR	799	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314526	3HANDSON	115.0	345	360	1.0702	1.0204	0.9300	1.0700	0.9694	1.0714	H	799	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314534	3S HAMEP	115.0	345	360	1.0768	1.0224	0.9300	1.0700	0.9713	1.0735	HR	799	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314539	3UNCAMP	115.0	345	360	1.0844	1.0213	0.9300	1.0700	0.9703	1.0724	HR	799	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314541	3WATKINS	115.0	345	360	1.0793	1.0234	0.9300	1.0700	0.9723	1.0746	HR	799	314527 3HOLLAND 115 314539 3UNCAMP 115 1

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:27 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSGL5511) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	Lowlimi t	Upllimi t	VoltDro p	VoltRis e	Viol	Neon	Contingency Description
314824	3UNCAM 1	115.0	345	360	1.0822	1.0220	0.9300	1.0700	0.9709	1.0731	HR	799	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314826	3WATKI 1	115.0	345	360	1.0796	1.0240	0.9300	1.0700	0.9728	1.0752	HR	799	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314827	3WATKI 2	115.0	345	360	1.0796	1.0240	0.9300	1.0700	0.9728	1.0752	HR	799	314527 3HOLLAND 115 314539 3UNCAMP 115 1
315115	1SHAMET1	13.8	345	360	1.0484	0.9916	0.9300	1.0700	0.9422	1.0414	R	799	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314541	3WATKINS	115.0	345	360	1.0703	1.0234	0.9300	1.0700	0.9723	1.0746	H	804	314534 38 HAMPT 115 314541 3WATKINS 115 1
314826	3WATKI 1	115.0	345	360	1.0708	1.0240	0.9300	1.0700	0.9728	1.0752	H	804	314534 38 HAMPT 115 314541 3WATKINS 115 1
314827	3WATKI 2	115.0	345	360	1.0708	1.0240	0.9300	1.0700	0.9728	1.0752	H	804	314534 38 HAMPT 115 314541 3WATKINS 115 1
314516	3BRUNS 1	115.0	345	358	1.0736	1.0084	0.9300	1.0700	0.9580	1.0588	HR	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314565	3CLBHS71	115.0	345	362	1.0429	1.0009	0.9300	1.0700	0.9509	1.0510	HR	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314675	3BRODNAX	115.0	345	358	1.0690	1.0064	0.9300	1.0700	0.9561	1.0567	R	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314676	3BRUNSWK	115.0	345	358	1.0791	1.0079	0.9300	1.0700	0.9575	1.0583	HR	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314693	3FRMAN D	115.0	345	358	1.0940	1.0035	0.9300	1.0700	0.9533	1.0537	HR	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314704	3LAWRENC	115.0	345	358	1.0845	1.0064	0.9300	1.0700	0.9561	1.0567	HR	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314721	3SD HILL	115.0	345	358	1.0573	1.0047	0.9300	1.0700	0.9545	1.0550	R	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314782	2BRUNSWC	69.0	345	358	1.1035	1.0281	0.9300	1.0700	0.9767	1.0795	HR	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314785	2DANLUMN	69.0	345	358	1.0493	0.9757	0.9300	1.0700	0.9269	1.0244	R	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314786	2GASBURG	69.0	345	358	1.0866	1.0121	0.9300	1.0700	0.9615	1.0627	HR	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314787	2BRUNSW2	69.0	345	358	1.0725	1.0007	0.9300	1.0700	0.9507	1.0508	HR	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314850	3CLBHS 1	115.0	345	362	1.1024	1.0014	0.9300	1.0700	0.9513	1.0515	HR	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314872	2BRUNSWIC	69.0	345	358	1.0604	0.9876	0.9300	1.0700	0.9382	1.0370	R	859	314562 3CLUBHSE 115 314565 3CLBHS71 115 21
314650	1KITTY 5	34.5	345	361	1.0700	1.0406	0.9300	1.0700	0.9885	1.0926	H	945	314635 3COLNGTP 115 314720 3 52T190 115 1
315147	1KITTYRB	13.8	345	361	1.0701	1.0406	0.9300	1.0700	0.9886	1.0927	H	945	314635 3COLNGTP 115 314720 3 52T190 115 1
315106	KITTY 3W5	1.0	345	361	1.0701	1.0406	0.9300	1.0700	0.9886	1.0927	H	945	314635 3COLNGTP 115 314720 3 52T190 115 1
314348	2GRETNA 1	69.0	345	358	1.0803	1.0167	0.9300	1.0700	0.9658	1.0675	HR	1052	314731 2GRETNA 69.0 314732 2GRNA FB 69.0 21
314732	2GRNA FB	69.0	345	358	1.0800	1.0164	0.9300	1.0700	0.9656	1.0672	HR	1052	314731 2GRETNA 69.0 314732 2GRNA FB 69.0 21
314737	28W35T57	69.0	345	358	1.0702	1.0201	0.9300	1.0700	0.9691	1.0711	H	1052	314731 2GRETNA 69.0 314732 2GRNA FB 69.0 21
314739	2MT A TP	69.0	345	358	1.0702	1.0201	0.9300	1.0700	0.9691	1.0711	H	1052	314731 2GRETNA 69.0 314732 2GRNA FB 69.0 21
314348	2GRETNA 1	69.0	345	358	1.0741	1.0167	0.9300	1.0700	0.9658	1.0675	HR	1053	314731 2GRETNA 69.0 314733 2GRNA DP 69.0 1
314731	2GRETNA	69.0	345	358	1.0728	1.0164	0.9300	1.0700	0.9656	1.0672	HR	1053	314731 2GRETNA 69.0 314733 2GRNA DP 69.0 1
314732	2GRNA FB	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0672	HR	1053	314731 2GRETNA 69.0 314733 2GRNA DP 69.0 1
314763	3KIDUSTO	115.0	345	363	0.9255	0.9931	0.9300	1.0700	0.9435	1.0428	LD	1066	314744 3BREM 115 314763 3KIDUSTO 115 1

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:23 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:21 <BRV003.0>
 2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV
 Case.File X:\S2015\sum_2015(2013LF)_base_wpre_CSCNOSURRY230_230 kv ALT A.sav
 Subsys.File X:\S2015\advp.sub
 Monit.File X:\S2015\vapsys.mon
 Contin.File X:\S2015\sum2015_single_ALT.con
 Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 93.5 % of nominal rating

**	From bus	** **	To bus	** CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314757	3GORDNVL	115	314776	3SOMRSET	115 LN	238.0	139.5	239.0	99.6	231 LN 255	
314559	3CAROLNA	115	314581	3JACKSON	115 LN	116.8	76.4	118.0	99.0	336 LN 2012	
314212	6FRRIVER	230	314222	6HANOVER	230 LN	787.9	612.0	797.0	98.9	404 LN 2090	
314581	3JACKSON	115	314626	3WOODLND	115 LN	114.2	73.8	118.0	96.8	336 LN 2012	
314461	3DEEPC46	115	314513	3YADKIN	115 LN	346.9	232.0	360.0	96.4	240 LN 262	
314391	6LIGH209	230	314415	6WALR209	230 LN	452.9	330.6	470.0	96.4	414 LN 2102	
314072	6PL VIEW	230	314925	8PL VIEW	500 TR	938.7	810.4	993.6	94.5	513 TX-1 8BRMBL	

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:23 < UDF000.0 >
2015 SUMMER BASE CASE (LTSGL5S11) REV. 04/02/2012
2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV

AC Bus Voltage Violations

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:23 <V0V003.0>

2015 SUMMER BASE CASE (LTSGL5S11) REV. 04/02/2012
2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV
Case.File X:\S2015\sum_2015(2013LF)_base_wpre_CSCNOSURRY230_230 kv ALT A.sav
Subsys.File X:\S2015\vdvp.sub
Monit.File X:\S2015\vdvapsys.mon
Contn.File X:\S2015\sum2015_single_ALT.con
Exclvd.File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	UppLimi t	VoltDro P	VoltRis e	Viol	Ncon	Contingency Description Base Case
315218	LCUNINC	18.0	345	366	1.0725	1.0725	0.9300	1.0700	1.0189	1.1261	H	**	**
314524	3FRNKLN	115.0	345	360	1.0809	1.0221	0.9300	1.0700	0.9709	1.0732	HR	64 LN 68	64 LN 68
314526	3HANDSOM	115.0	345	360	1.0703	1.0204	0.9300	1.0700	0.9694	1.0714	H	64 LN 68	64 LN 68
314534	3S HAMPT	115.0	345	360	1.0769	1.0224	0.9300	1.0700	0.9713	1.0735	HR	64 LN 68	64 LN 68
314539	3JUNCAMP	115.0	345	360	1.0844	1.0213	0.9300	1.0700	0.9703	1.0724	HR	64 LN 68	64 LN 68
314541	3WATKINS	115.0	345	360	1.0792	1.0234	0.9300	1.0700	0.9723	1.0746	HR	64 LN 68	64 LN 68
314824	3JUNCAM 1	115.0	345	360	1.0852	1.0220	0.9300	1.0700	0.9709	1.0731	HR	64 LN 68	64 LN 68
314826	3WATKI 1	115.0	345	360	1.0797	1.0240	0.9300	1.0700	0.9728	1.0752	HR	64 LN 68	64 LN 68
314827	3WATKI 2	115.0	345	360	1.0797	1.0240	0.9300	1.0700	0.9728	1.0752	HR	64 LN 68	64 LN 68
315115	1SHAMPT1	13.8	345	360	1.0485	0.9918	0.9300	1.0700	0.9422	1.0414	R	64 LN 68	64 LN 68
314348	2GRETN 1	69.0	345	358	1.0741	1.0167	0.9300	1.0700	0.9658	1.0675	HR	156 LN 173	156 LN 173
314731	2GRETN 2	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0672	HR	156 LN 173	156 LN 173
314732	2GRNA FB	69.0	345	358	1.0795	1.0164	0.9300	1.0700	0.9656	1.0672	HR	156 LN 173	156 LN 173
314874	2LIN 174	69.0	345	351	1.0796	1.0206	0.9300	1.0700	0.9696	1.0716	HR	157 LN 174	157 LN 174
314878	2LIN 178	69.0	345	351	1.0796	1.0206	0.9300	1.0700	0.9696	1.0716	HR	159 LN 178	159 LN 178
314879	2LIN 179	69.0	345	351	1.0796	1.0206	0.9300	1.0700	0.9696	1.0716	HR	160 LN 179	160 LN 179
314880	2LIN 180	69.0	345	351	1.0796	1.0206	0.9300	1.0700	0.9696	1.0716	HR	161 LN 180	161 LN 180
314122	3SOWEGO	115.0	345	353	0.9509	1.0033	0.9300	1.0700	0.9531	1.0535	D	162 LN 181	162 LN 181
314051	3LOMA197	115.0	345	353	0.9564	1.0031	0.9300	1.0700	0.9530	1.0533	D	175 LN 197	175 LN 197
314148	3MICR197	115.0	345	353	0.9319	1.0027	0.9300	1.0700	0.9526	1.0529	LD	175 LN 197	175 LN 197
314158	3GOW197	115.0	345	353	0.9483	1.0026	0.9300	1.0700	0.9525	1.0528	D	175 LN 197	175 LN 197
314014	3CANNONB	115.0	345	353	0.9032	1.0038	0.9300	1.0700	0.9536	1.0540	LD	335 LN 2011	335 LN 2011
314051	3LOMA197	115.0	345	353	0.9034	1.0031	0.9300	1.0700	0.9530	1.0533	LD	335 LN 2011	335 LN 2011
314148	3MICR197	115.0	345	353	0.9034	1.0027	0.9300	1.0700	0.9526	1.0529	LD	335 LN 2011	335 LN 2011
314155	3CANBR T	115.0	345	353	0.9033	1.0032	0.9300	1.0700	0.9531	1.0534	LD	335 LN 2011	335 LN 2011
314158	3GOW197	115.0	345	353	0.9036	1.0026	0.9300	1.0700	0.9525	1.0528	LD	335 LN 2011	335 LN 2011

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:23 < UDF000.0 >
2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	UppLim t	VoltDro P	VoltRis e	Viol	Ncon	Contingency Description
315001	LOMF A	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	337 LN 2013	
315002	LOMF B	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	337 LN 2013	
315083	ISPRUNCA	13.8	345	357	1.0172	0.9672	0.9300	1.0700	0.9188	1.0155	R	376 LN 2055	
315085	ISPRUNCC	13.8	345	357	1.0186	0.9689	0.9300	1.0700	0.9205	1.0174	R	376 LN 2055	
315008	IPOSSM6A	18.0	345	353	0.9262	0.9388	0.9300	1.0700	0.8919	0.9858	L	404 LN 2090	
315009	IPOSSM6B	18.0	345	353	0.9262	0.9388	0.9300	1.0700	0.8919	0.9858	L	404 LN 2090	
315008	IPOSSM6A	18.0	345	353	0.9245	0.9388	0.9300	1.0700	0.8919	0.9858	L	416 LN 2104	
315009	IPOSSM6B	18.0	345	353	0.9245	0.9388	0.9300	1.0700	0.8919	0.9858	L	416 LN 2104	
314180	GHAYES	230.0	345	354	0.9456	1.0141	0.9300	1.0700	0.9634	1.0648	D	432 LN 2122	
314118	3MINNIEV	115.0	345	353	0.9477	0.9988	0.9300	1.0700	0.9488	1.0487	D	479 TX-1 60X	
314167	3OX	115.0	345	352	0.9478	1.0063	0.9300	1.0700	0.9560	1.0566	D	479 TX-1 60X	
315008	IPOSSM6A	18.0	345	353	0.9280	0.9388	0.9300	1.0700	0.8919	0.9858	L	484 TX-1 6POSSUM	
315009	IPOSSM6B	18.0	345	353	0.9280	0.9388	0.9300	1.0700	0.8919	0.9858	L	484 TX-1 6POSSUM	
315009	IPOSSM6B	18.0	345	353	0.9266	0.9388	0.9300	1.0700	0.8919	0.9858	L	490 TX-1 6POSSU4	
315008	IPOSSM6A	18.0	345	353	0.9266	0.9388	0.9300	1.0700	0.8919	0.9858	L	491 TX-1 6POSSU5	
315009	IPOSSM6A	18.0	345	353	0.9258	0.9388	0.9300	1.0700	0.8919	0.9858	L	492 TX-1 6POSSU6	
315009	IPOSSM6B	18.0	345	353	0.9258	0.9388	0.9300	1.0700	0.8919	0.9858	L	492 TX-1 6POSSU6	
314122	3SOWEGO	115.0	345	353	0.9515	1.0033	0.9300	1.0700	0.9531	1.0535	D	501 TX-1 6BRISTE	
314156	3BRISTER	115.0	345	353	0.9515	1.0062	0.9300	1.0700	0.9559	1.0565	D	501 TX-1 6BRISTE	
314049	3LOWA172	115.0	345	353	0.9301	0.9848	0.9300	1.0700	0.9355	1.0340	D	504 TX-1 6LIBERT	
314123	3WELLGTH	115.0	345	353	0.9283	0.9873	0.9300	1.0700	0.9379	1.0367	LD	504 TX-1 6LIBERT	
314141	3LIBERTY	115.0	345	353	0.9283	0.9883	0.9300	1.0700	0.9389	1.0378	LD	504 TX-1 6LIBERT	
314147	3MTCR172	115.0	345	353	0.9299	0.9848	0.9300	1.0700	0.9356	1.0341	LD	504 TX-1 6LIBERT	
314157	3GOW172	115.0	345	353	0.9294	0.9858	0.9300	1.0700	0.9365	1.0351	LD	504 TX-1 6LIBERT	

CATEGORY B

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:32 <BRV003.0>
 2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALTB
 Case.File X:\S2015\sum.2015(2013LF)_base_wpre_cscnosurry230_230 kv ALT B.sav
 Subsys.File X:\S2015\drv.sub
 Monit.File X:\S2015\vapsys.mon
 Contin.File X:\S2015\vapsys.con
 Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 93.5 % of nominal rating

**	From bus	** **	To bus	** CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314757	3GORDNVL	115	314776	3SOMRSET	115	LN	238.7	139.5	239.0	99.9	1103 314766 6LOUISA 230 314777 6S ANNA 230 1
314559	3CAROLNA	115	314581	3JACKSON	115	LN	117.4	76.3	118.0	99.5	441 314266 6NORTHAMPTON 230 314599 6ROA VAL 230 1
314212	6FRRIEVER	230	314222	6HANOVER	230	LN	788.4	612.2	797.0	98.9	285 314138 6MINE RD 230 314197 6LOYSMT1 230 1
314559	3CAROLNA	115	314581	3JACKSON	115	LN	116.3	76.3	118.0	98.5	440 314266 6NORTHAMPTON 230 314569 6EARLEYS 230 1
314391	6LIGH209	230	314415	6WALR209	230	LN	461.3	324.9	470.0	98.2	371 314214 6CHICKAHM 230 314390 6LIGH285 230 1
314757	3GORDNVL	115	314776	3SOMRSET	115	LN	234.1	139.5	239.0	98.0	401 314232 6NO ANNA 230 314766 6LOUISA 230 1
304223	3ROCKYMT115T	115	314554	3BTLEBRO	115	LN	91.8	19.3	94.0	97.7	851 314559 3CAROLNA 115 314578 3HORNRTN 115 1
314581	3JACKSON	115	314626	3WOODLND	115	LN	114.8	73.8	118.0	97.3	441 314266 6NORTHAMPTON 230 314599 6ROA VAL 230 1
314581	3JACKSON	115	314626	3WOODLND	115	LN	113.7	73.8	118.0	96.3	440 314266 6NORTHAMPTON 230 314569 6EARLEYS 230 1
314461	3DEEPC46	115	314513	3YADKIN	115	LN	346.6	231.7	360.0	96.3	691 314449 6CHESAPEK 230 314514 6YADKIN 230 1
314212	6FRRIEVER	230	314222	6HANOVER	230	LN	754.5	612.2	797.0	94.7	282 314137 6FREDBERG 230 314138 6MINE RD 230 1
314072	6PL VIEW	230	314925	8PL VIEW	500	TR	938.6	810.4	993.6	94.5	307 314171 6BRAMBEL 230 314933 8BRAMBLETN 500 1

AC Bus Voltage Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:34 <VOW003.0>
2015 SUMMER BASE CASE (ITSG15S11) REV. 04/02/2012
2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT B
Case File X:\S2015\sum 2015(2013LF)_base_wpre_CSCNOSURRY230_230 kv ALT B.sav
Subsys File X:\S2015\vpv.sub
Monit File X:\S2015\vpvsys.mon
Contn File X:\S2015\vpvsys.con
Exclud File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Upplimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
315218	LCUNINGC	18.0	345	366	1.0725	1.0725	0.9300	1.0700	1.0189	1.1261	H	**	Base Case **
314014	3CANNONB	115.0	345	353	0.9075	1.0038	0.9300	1.0700	0.9536	1.0540	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314051	3LOMA197	115.0	345	353	0.9077	1.0031	0.9300	1.0700	0.9530	1.0533	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314148	3MTCR197	115.0	345	353	0.9077	1.0028	0.9300	1.0700	0.9526	1.0529	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314155	3CANBR T	115.0	345	353	0.9076	1.0033	0.9300	1.0700	0.9531	1.0534	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314158	3GODW197	115.0	345	353	0.9079	1.0026	0.9300	1.0700	0.9525	1.0528	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314051	3LOMA197	115.0	345	353	0.9225	1.0031	0.9300	1.0700	0.9530	1.0533	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314148	3MTCR197	115.0	345	353	0.9224	1.0028	0.9300	1.0700	0.9526	1.0529	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314155	3CANBR T	115.0	345	353	0.9225	1.0033	0.9300	1.0700	0.9531	1.0534	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314158	3GODW197	115.0	345	353	0.9225	1.0026	0.9300	1.0700	0.9525	1.0528	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314160	1 TX503	13.2	345	353	1.1080	1.0007	0.9300	1.0700	0.9507	1.0508	HR	96	314025 1 TX500 13.2 314160 1 TX503 13.2 21
315001	LCWF A	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	175	314067 600000 230 314068 60X 230 1
315002	LCWF B	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	175	314067 600000 230 314068 60X 230 1
314118	3MINNIEV	115.0	345	353	0.9477	0.9988	0.9300	1.0700	0.9489	1.0487	D	179	314068 60X 230 314167 30X 115 1
314167	30X	115.0	345	352	0.9478	1.0063	0.9300	1.0700	0.9560	1.0566	D	179	314068 60X 230 314167 30X 115 1
315008	1POSSM6A	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9855	L	181	314073 3POSSUM 115 314074 6POSSUM 230 1
315009	1POSSM6B	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9855	L	181	314073 3POSSUM 115 314074 6POSSUM 230 1
315009	1POSSM6B	18.0	345	353	0.9263	0.9385	0.9300	1.0700	0.8916	0.9855	L	204	314074 6POSSUM 230 315009 1POSSM6A 18.0 1
315008	1POSSM6A	18.0	345	353	0.9254	0.9385	0.9300	1.0700	0.8916	0.9855	L	205	314074 6POSSUM 230 315009 1POSSM6B 18.0 1
315009	1POSSM6B	18.0	345	353	0.9254	0.9385	0.9300	1.0700	0.8916	0.9855	L	206	314074 6POSSUM 230 315010 1POSSM6S 18.0 1
314118	3MINNIEV	115.0	345	353	0.9461	0.9988	0.9300	1.0700	0.9489	1.0487	D	255	314118 3MINNIEV 115 314167 30X 115 1
314122	3SOWEGO	115.0	345	353	0.9509	1.0033	0.9300	1.0700	0.9532	1.0535	D	259	314122 3SOWEGO 115 314156 3BRISTER 115 1
314049	3LOMA172	115.0	345	353	0.9300	0.9848	0.9300	1.0700	0.9355	1.0340	LD	260	314123 3WELLTGN 115 314141 3LIBERTY 115 1
314123	3WELLTGN	115.0	345	353	0.9282	0.9873	0.9300	1.0700	0.9379	1.0367	LD	260	314123 3WELLTGN 115 314141 3LIBERTY 115 1
314147	3MTCR172	115.0	345	353	0.9292	0.9848	0.9300	1.0700	0.9356	1.0341	LD	260	314123 3WELLTGN 115 314141 3LIBERTY 115 1
314157	3GODW172	115.0	345	353	0.9292	0.9858	0.9300	1.0700	0.9365	1.0351	LD	260	314123 3WELLTGN 115 314141 3LIBERTY 115 1
314122	3SOWEGO	115.0	345	353	0.9515	1.0033	0.9300	1.0700	0.9532	1.0535	D	263	314130 6BRISTER 230 314156 3BRISTER 115 1

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	Lowlimi t	Upllimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314156	3BRISTER	115.0	345	353	0.9515	1.0062	0.9300	1.0700	0.9559	1.0565	D	263	314130 6BRISTER 230 314156 3BRISTER 115 1
314049	3LOMA172	115.0	345	353	0.9301	0.9848	0.9300	1.0700	0.9355	1.0340	D	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314123	3WELGTON	115.0	345	353	0.9283	0.9873	0.9300	1.0700	0.9379	1.0367	D	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314141	3LIBERTY	115.0	345	353	0.9283	0.9884	0.9300	1.0700	0.9389	1.0378	D	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314147	3MCCR172	115.0	345	353	0.9299	0.9848	0.9300	1.0700	0.9356	1.0341	D	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314157	3GODW172	115.0	345	353	0.9294	0.9858	0.9300	1.0700	0.9365	1.0351	D	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314775	3NI RVER	115.0	345	363	0.9551	1.0143	0.9300	1.0700	0.9636	1.0651	D	275	314135 3CHANCE 115 314775 3NI RVER 115 1
314151	3SLARTWN	115.0	345	355	0.9530	1.0061	0.9300	1.0700	0.9558	1.0564	D	280	314136 3FREDARG 115 314151 3SLARTWN 115 1
315008	1POSSW6A	18.0	345	353	0.9256	0.9385	0.9300	1.0700	0.8916	0.9855	L	282	314137 6FREDARG 230 314138 6MINE RD 230 1
315009	1POSSW6B	18.0	345	353	0.9256	0.9385	0.9300	1.0700	0.8916	0.9855	L	282	314137 6FREDARG 230 314138 6MINE RD 230 1
315006	1POSSW6A	18.0	345	353	0.9243	0.9385	0.9300	1.0700	0.8916	0.9855	L	289	314142 6STAFORD 230 314145 6AQUI HARB B 230 1
315009	1POSSW6B	18.0	345	353	0.9243	0.9385	0.9300	1.0700	0.8916	0.9855	L	289	314142 6STAFORD 230 314145 6AQUI HARB B 230 1
314148	3MCCR197	115.0	345	353	0.9228	1.0028	0.9300	1.0700	0.9528	1.0529	D	285	314148 3MCCR197 115 314155 3CANBR T 115 1
314158	3GODW197	115.0	345	353	0.9229	1.0026	0.9300	1.0700	0.9525	1.0528	D	285	314148 3MCCR197 115 314155 3CANBR T 115 1
314176	6GHARMONY	230.0	345	354	1.0304	1.0245	0.9300	1.0700	0.9733	1.0757	D	318	314176 6GHARMONY 230 314189 6PAPERMILL 230 1
314180	6GHAYES	230.0	345	354	0.9491	1.0253	0.9300	1.0700	0.9741	1.0766	D	321	314180 6GHAYES 230 314423 6YORKTWN 230 1
314259	3CAR56 1	115.0	345	362	1.0479	1.0184	0.9300	1.0700	0.9675	1.0693	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314526	3HANSBOM	115.0	345	360	1.0758	1.0215	0.9300	1.0700	0.9705	1.0726	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314534	3S HAMPT	115.0	345	360	1.0736	1.0236	0.9300	1.0700	0.9724	1.0748	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314541	3WATKINS	115.0	345	360	1.0725	1.0247	0.9300	1.0700	0.9735	1.0759	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314556	3BOYKINS	115.0	345	362	0.9840	1.0168	0.9300	1.0700	0.9660	1.0676	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314587	3MARGTSV	115.0	345	362	1.0444	1.0160	0.9300	1.0700	0.9652	1.0667	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314604	3SABORD	115.0	345	362	1.0459	1.0157	0.9300	1.0700	0.9649	1.0665	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314826	3WATKI 1	115.0	345	360	1.0740	1.0252	0.9300	1.0700	0.9739	1.0765	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314827	3WATKI 2	115.0	345	360	1.0740	1.0252	0.9300	1.0700	0.9739	1.0765	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314835	3CAROL 1	115.0	345	362	1.0486	1.0195	0.9300	1.0700	0.9685	1.0704	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
315115	1SHAMPT1	13.8	345	360	1.0451	0.9931	0.9300	1.0700	0.9434	1.0427	R	464	314259 3CAR56 1 115 314559 3CAROLINA 115 1
315083	1SPURNCR	13.8	345	357	1.0164	0.9666	0.9300	1.0700	0.9183	1.0150	R	464	314275 6BELMEAD 230 314276 6BASIN 230 1
315085	1SPURNCOC	13.8	345	357	1.0178	0.9664	0.9300	1.0700	0.9200	1.0168	R	464	314275 6BELMEAD 230 314276 6BASIN 230 1
314328	6PIAZA	230.0	345	357	0.9605	1.0053	0.9300	1.0700	0.9550	1.0555	D	566	314328 6PIAZA 230 314338 6SOWEST 230 1
315139	1GRAVEL3	13.8	345	360	1.0319	0.9809	0.9300	1.0700	0.9318	1.0299	R	648	314423 6YORKTWN 230 314450 6YORKT 1 230 1
315120	1GRAVEL4	13.8	345	360	1.0321	0.9825	0.9300	1.0700	0.9334	1.0316	R	648	314423 6YORKTWN 230 314450 6YORKT 1 230 1
315111	1IRKINGA	13.8	345	359	0.9932	0.9436	0.9300	1.0700	0.8965	0.9908	R	673	314444 6BOWERS 230 314454 6YADKIN 230 1
315112	1IRKINGB	13.8	345	359	0.9932	0.9436	0.9300	1.0700	0.8965	0.9908	R	673	314444 6BOWERS 230 314454 6YADKIN 230 1
315111	1IRKINGC	13.8	345	359	0.9915	0.9436	0.9300	1.0700	0.8965	0.9908	R	699	314453 6CHRAHND 230 314653 6CHRAHL 1 230 1
315112	1IRKINGE	13.8	345	359	0.9915	0.9436	0.9300	1.0700	0.8965	0.9908	R	699	314453 6CHRAHND 230 314653 6CHRAHL 1 230 1
314524	3FRANKIN	115.0	345	360	1.0746	1.0234	0.9300	1.0700	0.9722	1.0745	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314527	3HOLLAND	115.0	345	360	1.0761	1.0117	0.9300	1.0700	0.9611	1.0623	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314534	3S HAMPT	115.0	345	360	1.0712	1.0236	0.9300	1.0700	0.9724	1.0748	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314539	3UNCAMP	115.0	345	360	1.0778	1.0227	0.9300	1.0700	0.9716	1.0739	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314541	3WATKINS	115.0	345	360	1.0732	1.0247	0.9300	1.0700	0.9735	1.0759	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314824	3UNCAMP 1	115.0	345	360	1.0789	1.0234	0.9300	1.0700	0.9723	1.0746	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314826	3WATKI 1	115.0	345	360	1.0738	1.0252	0.9300	1.0700	0.9739	1.0765	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314827	3WATKI 2	115.0	345	360	1.0738	1.0252	0.9300	1.0700	0.9739	1.0765	H	798	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314524	3FRANKIN	115.0	345	360	1.0705	1.0234	0.9300	1.0700	0.9722	1.0745	H	799	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314526	3HANSBOM	115.0	345	360	1.0725	1.0215	0.9300	1.0700	0.9705	1.0726	H	799	314527 3HOLLAND 115 314539 3UNCAMP 115 1

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	Lowlimi t	Upplimi t	VolDro P	VolRis e	Viol	Ncon	Contingency Description
314534	3S HAMPT	115.0	345	360	1.0772	1.0236	0.9300	1.0700	0.9724	1.0748	HR	799	314539 3UNCAMP 115 1
314539	3UNCAMP	115.0	345	360	1.0847	1.0227	0.9300	1.0700	0.9716	1.0739	HR	799	314539 3UNCAMP 115 1
314541	3WATKINS	115.0	345	360	1.0795	1.0247	0.9300	1.0700	0.9735	1.0739	HR	799	314539 3UNCAMP 115 1
314824	3UNCAM 1	115.0	345	360	1.0855	1.0234	0.9300	1.0700	0.9723	1.0746	HR	799	314539 3UNCAMP 115 1
314826	3WATKI 1	115.0	345	360	1.0800	1.0252	0.9300	1.0700	0.9739	1.0765	HR	799	314539 3UNCAMP 115 1
314827	3WATKI 2	115.0	345	360	1.0800	1.0252	0.9300	1.0700	0.9739	1.0765	HR	799	314539 3UNCAMP 115 1
315115	15HAMPT1	13.8	345	360	1.0488	0.9931	0.9300	1.0700	0.9434	1.0427	R	799	314539 3UNCAMP 115 1
314516	3BRUNS 1	115.0	345	358	1.0796	1.0084	0.9300	1.0700	0.9580	1.0588	HR	860	314565 3CLBHS71 115 21
314565	3CLBHS71	115.0	345	362	1.0209	1.0009	0.9300	1.0700	0.9509	1.0510	HR	860	314565 3CLBHS71 115 21
314675	3BROCNAX	115.0	345	358	1.0690	1.0064	0.9300	1.0700	0.9561	1.0567	R	860	314565 3CLBHS71 115 21
314676	3BRUNSHK	115.0	345	358	1.0791	1.0079	0.9300	1.0700	0.9575	1.0583	HR	860	314565 3CLBHS71 115 21
314693	3FERMAN D	115.0	345	358	1.0940	1.0035	0.9300	1.0700	0.9534	1.0537	HR	860	314565 3CLBHS71 115 21
314704	3LAURENC	115.0	345	358	1.0845	1.0064	0.9300	1.0700	0.9561	1.0567	HR	860	314565 3CLBHS71 115 21
314721	3SD HILL	115.0	345	358	1.0573	1.0048	0.9300	1.0700	0.9545	1.0550	R	860	314565 3CLBHS71 115 21
314782	2BRUNSWC	69.0	345	358	1.0245	1.0281	0.9300	1.0700	0.9767	1.0795	HR	860	314565 3CLBHS71 115 21
314785	2DANNTWN	69.0	345	358	1.0493	0.9757	0.9300	1.0700	0.9269	1.0245	R	860	314565 3CLBHS71 115 21
314786	2GRSBRG	69.0	345	358	1.0866	1.0121	0.9300	1.0700	0.9615	1.0627	HR	860	314565 3CLBHS71 115 21
314787	2BRUNSW2	69.0	345	358	1.0725	1.0008	0.9300	1.0700	0.9507	1.0508	HR	860	314565 3CLBHS71 115 21
314850	3CLBHS 1	115.0	345	362	1.0304	1.0014	0.9300	1.0700	0.9514	1.0515	HR	860	314565 3CLBHS71 115 21
314872	2BRUNSWC	69.0	345	358	1.0604	0.9876	0.9300	1.0700	0.9382	1.0370	R	860	314565 3CLBHS71 115 21
314641	3KITTY H	115.0	345	361	1.0728	1.0407	0.9300	1.0700	0.9886	1.0927	H	945	314641 3KITTY H 115 1
314646	1KITTY 4	34.5	345	361	1.0729	1.0407	0.9300	1.0700	0.9886	1.0927	H	945	314641 3KITTY H 115 1
314650	1KITTY 5	34.5	345	361	1.0736	1.0417	0.9300	1.0700	0.9895	1.0936	H	945	314641 3KITTY H 115 1
315146	1KITTHKA	13.8	345	361	1.0728	1.0407	0.9300	1.0700	0.9886	1.0927	H	945	314641 3KITTY H 115 1
315147	1KITTHKB	13.8	345	361	1.0737	1.0417	0.9300	1.0700	0.9896	1.0937	H	945	314641 3KITTY H 115 1
BS1105	KITT 3W4	1.0	345	361	1.0728	1.0407	0.9300	1.0700	0.9886	1.0927	H	945	314641 3KITTY H 115 1
BS1106	KITT 3W5	1.0	345	361	1.0737	1.0417	0.9300	1.0700	0.9896	1.0937	H	945	314641 3KITTY H 115 1
314635	3COLNGTP	115.0	345	361	1.0736	1.0258	0.9300	1.0700	0.9745	1.0771	H	946	314635 3COLNGTP 115 1
314636	3COLNG2	115.0	345	361	1.0737	1.0259	0.9300	1.0700	0.9746	1.0771	H	946	314635 3COLNGTP 115 1
314641	3KITTY H	115.0	345	361	1.0734	1.0407	0.9300	1.0700	0.9886	1.0927	H	946	314635 3COLNGTP 115 1
314646	1KITTY 4	34.5	345	361	1.0734	1.0407	0.9300	1.0700	0.9886	1.0927	H	946	314635 3COLNGTP 115 1
314650	1KITTY 5	34.5	345	361	1.0743	1.0416	0.9300	1.0700	0.9895	1.0936	H	946	314635 3COLNGTP 115 1
314829	3COLIN 1	115.0	345	361	1.0737	1.0259	0.9300	1.0700	0.9746	1.0771	H	946	314635 3COLNGTP 115 1
315146	1KITTHKA	13.8	345	361	1.0734	1.0407	0.9300	1.0700	0.9886	1.0927	H	946	314635 3COLNGTP 115 1
315147	1KITTHKB	13.8	345	361	1.0744	1.0417	0.9300	1.0700	0.9896	1.0937	H	946	314635 3COLNGTP 115 1
BS1105	KITT 3W4	1.0	345	361	1.0734	1.0407	0.9300	1.0700	0.9886	1.0927	H	946	314635 3COLNGTP 115 1
BS1106	KITT 3W5	1.0	345	361	1.0744	1.0417	0.9300	1.0700	0.9896	1.0937	H	946	314635 3COLNGTP 115 1
314348	2GRETN 1	69.0	345	358	1.0803	1.0167	0.9300	1.0700	0.9658	1.0675	HR	1053	314732 2GRNA FB 69.0 21
314732	2GRNA FB	69.0	345	358	1.0800	1.0164	0.9300	1.0700	0.9656	1.0672	HR	1053	314732 2GRNA FB 69.0 21
314737	2SM35T57	69.0	345	358	1.0702	1.0201	0.9300	1.0700	0.9691	1.0711	H	1053	314732 2GRNA FB 69.0 21
314739	2MT A TP	69.0	345	358	1.0702	1.0201	0.9300	1.0700	0.9691	1.0711	H	1053	314732 2GRNA FB 69.0 21
314348	2GRETN 1	69.0	345	358	1.0742	1.0167	0.9300	1.0700	0.9658	1.0675	HR	1054	314733 2GRNA DP 69.0 1
314731	2GRETN A	69.0	345	358	1.0739	1.0164	0.9300	1.0700	0.9656	1.0672	HR	1054	314733 2GRNA DP 69.0 1
314732	2GRNA FB	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0672	HR	1054	314733 2GRNA DP 69.0 1
314763	3KIDNSTO	115.0	345	363	0.9255	0.9931	0.9300	1.0700	0.9435	1.0428	LD	1067	314744 3BREMO 115 1

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:37 <BRV003.0>
2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALTB
Case.File X:\S2015\sum_2015(2013LF)_base_wpre_CSCNOSURRY230_230 kv ALT B.sav
Subsys.File X:\S2015\drv.sub
Monit.File X:\S2015\vapsys.mon
Contin.File X:\S2015\sum2015_single_ALT.con
Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 93.5 % of nominal rating

**	From bus	** **	To bus	** CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314757	3GORDNVL	115	314776	3SOMRSET	115	LN	238.0	139.5	99.6	231	LN 255
314559	3CAROLINA	115	314581	3JACKSON	115	LN	116.7	76.3	98.9	337	LN 2012
314212	6FRRIVER	230	314222	6HANOVER	230	LN	787.8	612.2	98.8	405	LN 2090
314581	3JACKSON	115	314626	3WOODLND	115	LN	114.1	73.8	96.7	337	LN 2012
314461	3DEEPC46	115	314513	3YADKIN	115	LN	346.6	231.7	96.3	240	LN 262
314072	6PL VIEW	230	314925	8PL VIEW	500	TR	938.7	810.4	94.5	514	TX-1 8BRMBL
314391	6LIGH209	230	314415	6WALR209	230	LN	441.9	324.9	94.0	415	LN 2102

AC Bus Voltage Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:38 <V0V003.0>

2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALTB
Case.File X:\S2015\sum_2015(2013LF)_base_wpre_CSCNOSURRY230_230 kv ALT B.sav
Subsys.File X:\S2015\vdvp.sub
Monit.File X:\S2015\vdapsys.mon
Contin.File X:\S2015\sum2015_single_ALT.con
Exclud.File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	Lowlimi t	Upplimi t	VoltDro P	VoltRis e	Viol	Ncon	Contingency Description
315218	ICUNINGC	18.0	345	366	1.0725	1.0725	0.9300	1.0700	1.0189	1.1261	H	**	Base Case **
314641	SKITTY H	115.0	345	361	1.0728	1.0407	0.9300	1.0700	0.9886	1.0927	H	46 LN 52	
314646	IKITTY 4	34.5	345	361	1.0728	1.0407	0.9300	1.0700	0.9886	1.0927	H	46 LN 52	
314650	IKITTY 5	34.5	345	361	1.0737	1.0416	0.9300	1.0700	0.9895	1.0936	H	46 LN 52	
315146	IKITYHKA	13.8	345	361	1.0737	1.0407	0.9300	1.0700	0.9886	1.0927	H	46 LN 52	
315147	IKITYHKB	13.8	345	361	1.0738	1.0417	0.9300	1.0700	0.9896	1.0937	H	46 LN 52	
B\$1105	KITT 3W4	1.0	345	361	1.0728	1.0407	0.9300	1.0700	0.9886	1.0927	H	46 LN 52	
B\$1106	KITT 3W5	1.0	345	361	1.0738	1.0417	0.9300	1.0700	0.9896	1.0937	H	46 LN 52	
314524	IFRNKLN	115.0	345	360	1.0810	1.0234	0.9300	1.0700	0.9722	1.0745	HR	64 LN 68	
314526	HANDSOM	115.0	345	360	1.0704	1.0215	0.9300	1.0700	0.9705	1.0726	H	64 LN 68	
314534	SS HAMPT	115.0	345	360	1.0770	1.0236	0.9300	1.0700	0.9724	1.0748	HR	64 LN 68	
314539	BUNCAMP	115.0	345	360	1.0846	1.0227	0.9300	1.0700	0.9716	1.0739	HR	64 LN 68	
314541	SWATKINS	115.0	345	360	1.0793	1.0247	0.9300	1.0700	0.9735	1.0759	HR	64 LN 68	
314824	BUNCAM 1	115.0	345	360	1.0853	1.0234	0.9300	1.0700	0.9723	1.0746	HR	64 LN 68	
314826	SWATKI 1	115.0	345	360	1.0798	1.0252	0.9300	1.0700	0.9739	1.0765	HR	64 LN 68	
314827	SWATKI 2	115.0	345	360	1.0798	1.0252	0.9300	1.0700	0.9739	1.0765	HR	64 LN 68	
315115	ISHAMPT1	13.8	345	360	1.0484	0.9931	0.9300	1.0700	0.9434	1.0427	R	64 LN 68	
314348	ZCRETN 1	69.0	345	358	1.0740	1.0167	0.9300	1.0700	0.9658	1.0675	HR	156 LN 173	
314731	ZCRETNA	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0672	HR	156 LN 173	
314732	ZCRNA FB	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0672	HR	156 LN 173	
314874	2LN 174	69.0	345	351	1.0796	1.0206	0.9300	1.0700	0.9696	1.0717	HR	157 LN 174	
314878	2LN 178	69.0	345	351	1.0795	1.0206	0.9300	1.0700	0.9696	1.0717	HR	159 LN 178	
314879	2LN 179	69.0	345	351	1.0797	1.0206	0.9300	1.0700	0.9696	1.0717	HR	160 LN 179	
314880	2LN 180	69.0	345	351	1.0798	1.0206	0.9300	1.0700	0.9696	1.0717	HR	161 LN 180	
314122	SSOWEGO	115.0	345	353	0.9502	1.0033	0.9300	1.0700	0.9532	1.0535	D	162 LN 181	
314051	310MA197	115.0	345	353	0.9335	1.0031	0.9300	1.0700	0.9530	1.0533	D	175 LN 197	

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	Lowlimi t	Upplimi t	VoltBro p	VoltRis e	Viol	Ncon	Contingency Description
314148	3MICK197	115.0	345	353	0.9065	1.0028	0.9300	1.0700	0.9526	1.0529	LD	175 LN 197	
314158	3GOW197	115.0	345	353	0.9465	1.0026	0.9300	1.0700	0.9525	1.0528	D	175 LN 197	
314014	3CANNONB	115.0	345	353	0.8924	1.0038	0.9300	1.0700	0.9536	1.0540	LD	336 LN 2011	
314051	3LONA197	115.0	345	353	0.8906	1.0031	0.9300	1.0700	0.9530	1.0533	LD	336 LN 2011	
314148	3MICK197	115.0	345	353	0.8906	1.0028	0.9300	1.0700	0.9526	1.0529	LD	336 LN 2011	
314158	3CANBR T	115.0	345	353	0.8905	1.0033	0.9300	1.0700	0.9531	1.0534	LD	336 LN 2011	
314158	3GOW197	115.0	345	353	0.8926	1.0026	0.9300	1.0700	0.9525	1.0528	LD	336 LN 2011	
315001	LOMF A	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	338 LN 2013	
315002	LOMF B	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	338 LN 2013	
315003	ISPRUNGA	13.8	345	357	1.0164	0.9666	0.9300	1.0700	0.9183	1.0150	R	377 LN 2055	
315085	ISPRUNGC	13.8	345	357	1.0178	0.9684	0.9300	1.0700	0.9200	1.0168	R	377 LN 2055	
315008	IPOSSMGA	18.0	345	353	0.9257	0.9385	0.9300	1.0700	0.8916	0.9855	L	405 LN 2090	
315009	IPOSSMGB	18.0	345	353	0.9245	0.9385	0.9300	1.0700	0.8916	0.9855	L	405 LN 2090	
315008	IPOSSMGA	18.0	345	353	0.9245	0.9385	0.9300	1.0700	0.8916	0.9855	L	417 LN 2104	
315009	IPOSSMGB	18.0	345	353	0.9245	0.9385	0.9300	1.0700	0.8916	0.9855	L	417 LN 2104	
314180	6HAYES	230.0	345	354	0.8992	1.0253	0.9300	1.0700	0.9741	1.0766	LD	433 LN 2122	
314118	3MINNIEV	115.0	345	353	0.9475	0.9988	0.9300	1.0700	0.9489	1.0487	D	480 TX-1 60X	
314167	3OX	115.0	345	352	0.9476	1.0063	0.9300	1.0700	0.9560	1.0566	D	480 TX-1 60X	
315008	IPOSSMGA	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9855	L	485 TX-1 6POSSUM	
315009	IPOSSMGB	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9855	L	485 TX-1 6POSSUM	
315009	IPOSSMGB	18.0	345	353	0.9263	0.9385	0.9300	1.0700	0.8916	0.9855	L	491 TX-1 6POSSU4	
315008	IPOSSMGA	18.0	345	353	0.9263	0.9385	0.9300	1.0700	0.8916	0.9855	L	492 TX-1 6POSSU5	
315008	IPOSSMGA	18.0	345	353	0.9255	0.9385	0.9300	1.0700	0.8916	0.9855	L	493 TX-1 6POSSU6	
315009	IPOSSMGB	18.0	345	353	0.9255	0.9385	0.9300	1.0700	0.8916	0.9855	L	493 TX-1 6POSSU6	
314122	3SOWEGO	115.0	345	353	0.9508	1.0033	0.9300	1.0700	0.9532	1.0535	D	502 TX-1 6BRISTE	
314156	3BRISTEK	115.0	345	353	0.9508	1.0062	0.9300	1.0700	0.9559	1.0565	D	502 TX-1 6BRISTE	
314049	3LONA172	115.0	345	353	0.9313	0.9848	0.9300	1.0700	0.9355	1.0340	D	505 TX-1 6LIBERT	
314123	3WELLGTH	115.0	345	353	0.9296	0.9873	0.9300	1.0700	0.9379	1.0367	LD	505 TX-1 6LIBERT	
314141	3LIBERTY	115.0	345	353	0.9296	0.9884	0.9300	1.0700	0.9389	1.0378	LD	505 TX-1 6LIBERT	
314147	3MICK172	115.0	345	353	0.9311	0.9848	0.9300	1.0700	0.9356	1.0341	D	505 TX-1 6LIBERT	
314157	3GOW172	115.0	345	353	0.9306	0.9858	0.9300	1.0700	0.9365	1.0351	D	505 TX-1 6LIBERT	

CATEGORY B

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:53 < UDF000.0 >
2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C
Case.File X:\S2015\sum.2015(2013LF)_base_wpre_cscnosurry230_altc.sav
Subsys.File X:\S2015\drv.sub
Monit.File X:\S2015\vapeys.mon
Contin.File X:\S2015\vapeys.con
Exclud.File none

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:51 <BRV003.0>

2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012

2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C

Case.File X:\S2015\sum.2015(2013LF)_base_wpre_cscnosurry230_altc.sav

Subsys.File X:\S2015\drv.sub

Monit.File X:\S2015\vapeys.mon

Contin.File X:\S2015\vapeys.con

Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 93.5 % of nominal rating

**	From bus	** **	To bus	** CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314377	3DOW 34	115	314387 3LANEXA	115	LN	104.3	77.0	89.0	117.2	610	314388 6LANEXA 230 314391 6LIGH209 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	102.8	75.4	89.0	115.5	610	314388 6LANEXA 230 314391 6LIGH209 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	101.6	77.0	89.0	114.1	609	314387 3LANEXA 115 314396 3NNWS58 115 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	101.6	77.0	89.0	114.1	620	314396 3NNWS58 115 314411 3TOAN058 115 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	100.5	77.0	89.0	113.0	614	314391 6LIGH209 230 314415 6WALR209 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	100.1	75.4	89.0	112.4	609	314387 3LANEXA 115 314396 3NNWS58 115 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	99.0	75.4	89.0	111.2	620	314396 3NNWS58 115 314411 3TOAN058 115 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	98.8	77.0	89.0	109.3	371	314214 6CHCKRAHM 230 314390 6LIGH285 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	97.3	75.4	89.0	109.3	371	314214 6CHCKRAHM 230 314390 6LIGH285 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	95.1	77.0	89.0	106.8	604	314384 3KINGS M 115 314411 3TOAN058 115 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	94.9	77.0	89.0	106.6	515	314296 6PENNIMAN 230 314415 6WALR209 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	94.4	77.0	89.0	106.1	613	314390 6LIGH285 230 314413 6WALR285 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	93.7	77.0	89.0	105.2	514	314296 6PENNIMAN 230 314386 6KINGS M 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	93.5	75.4	89.0	105.1	604	314384 3KINGS M 115 314411 3TOAN058 115 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	93.3	75.4	89.0	104.8	515	314296 6PENNIMAN 230 314415 6WALR209 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	92.9	75.4	89.0	104.3	613	314390 6LIGH285 230 314413 6WALR285 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	92.1	75.4	89.0	103.4	514	314296 6PENNIMAN 230 314386 6KINGS M 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	91.8	77.0	89.0	103.2	606	314386 6KINGS M 230 314423 6YORKTWN 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	91.4	77.0	89.0	102.7	813	314538 6SURREY 230 314540 6POOLSVL 230 1
314378	3FTEUS34	115	314381 3GRAFT34	115	LN	91.3	64.0	89.0	102.5	610	314388 6LANEXA 230 314391 6LIGH209 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	90.7	77.0	89.0	101.9	28	313818 6BENCHRCH 230 314522 6CHCKTUK 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	90.7	77.0	89.0	101.9	595	314376 6BENBIGH 230 314413 6WALR285 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	90.7	77.0	89.0	101.9	643	314421 6WINCHST 230 314540 6POOLSVL 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	90.2	75.4	89.0	101.4	606	314386 6KINGS M 230 314423 6YORKTWN 230 1

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:53 < UDF000.0 >
 2015 SUMMER BASE CASE (LTS15S11) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C

**	From bus	** **	To bus	** CKT	Type	ContMVA	BasePlo w	Rating	Loading %	Ncon	Contingency Description
314377	3DOW 34	115	314378 3FTEUS34	115	LN	89.8	75.4	89.0	100.9	813	314538 6SURREY 230 314540 6POOLSVL 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	89.6	77.0	89.0	100.6	27	313818 6BENCHRCH 230 314398 6NP NEWS 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	89.1	75.4	89.0	100.1	28	313818 6BENCHRCH 230 314522 6CHCKTUK 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	89.1	75.4	89.0	100.1	595	314376 6DENBIGH 230 314413 6WALR285 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	89.1	75.4	89.0	100.1	643	314421 6WINCHST 230 314540 6POOLSVL 230 1
314378	3FTEUS34	115	314776 3SOMRSET	115	LN	236.8	139.6	239.0	99.9	1098	314766 6LOUISA 230 314777 6S ANNA 230 1
314378	3FTEUS34	115	314381 3GRAFT34	115	LN	88.3	64.0	89.0	99.2	609	314387 3LANEXA 115 314396 3NNWS58 115 1
314378	3FTEUS34	115	314381 3GRAFT34	115	LN	88.3	64.0	89.0	99.2	620	314396 3NNWS58 115 314411 3TORNOS58 115 1
314212	6FRRIVER	230	314222 6HANOVER	230	LN	789.7	612.0	797.0	99.1	285	314138 6MINE RD 230 314197 6LDYSMT1 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	88.0	75.4	89.0	98.9	27	313818 6BENCHRCH 230 314398 6NP NEWS 230 1
314559	3CAROLNA	115	314581 3JACKSON	115	LN	116.7	75.9	118.0	98.9	441	314266 6NORTHAMPTON 230 314599 6ROA VAL 230 1
314378	3FTEUS34	115	314381 3GRAFT34	115	LN	87.6	64.0	89.0	98.5	614	314391 6LIGH209 230 314415 6WALR209 230 1
314757	3GORDNVL	115	314776 3SOMRSET	115	LN	234.2	139.6	239.0	98.0	401	314232 6NO ANNA 230 314766 6LOUISA 230 1
314559	3CAROLNA	115	314581 3JACKSON	115	LN	115.6	75.9	118.0	97.9	440	314266 6NORTHAMPTON 230 314569 6EARLEYS 230 1
304223	3ROCKYMT115T	115	314554 3BTLFBRO	115	LN	91.8	19.1	94.0	97.6	846	314559 3CAROLNA 115 314578 3HORNRTN 115 1
314391	6LIGH209	230	314415 6WALR209	230	LN	458.5	312.4	470.0	97.5	371	314214 6CHCKAHH 230 314390 6LIGH285 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	86.6	77.0	89.0	97.3	596	314376 6DENBIGH 230 314423 6YORKTWN 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	86.2	77.0	89.0	96.8	605	314384 3KINGS M 115 314424 3YNNWS 58 115 1
314581	3JACKSON	115	314626 3WOODLND	115	LN	114.1	73.3	118.0	96.7	441	314266 6NORTHAMPTON 230 314599 6ROA VAL 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	86.0	77.0	89.0	96.6	641	314418 6WHEALTN 230 314421 6WINCHST 230 1
314378	3FTEUS34	115	314381 3GRAFT34	115	LN	85.8	64.0	89.0	96.4	371	314214 6CHCKAHH 230 314390 6LIGH285 230 1
314461	3DEEPC46	115	314513 3YADKIN	115	LN	345.4	230.4	360.0	95.9	688	314449 6CHESAPK 230 314514 6YADKIN 230 1
314581	3JACKSON	115	314626 3WOODLND	115	LN	113.0	73.3	118.0	95.7	440	314266 6NORTHAMPTON 230 314569 6EARLEYS 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	85.0	75.4	89.0	95.5	596	314376 6DENBIGH 230 314423 6YORKTWN 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	84.9	77.0	89.0	95.4	644	314422 3YORKTWN 115 314425 3YORK PS 115 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	84.9	77.0	89.0	95.4	646	314423 6YORKTWN 230 314425 3YORK PS 115 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	84.7	77.0	89.0	95.2	612	314389 3LEBAN58 115 314424 3YNNWS 58 115 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	84.6	75.4	89.0	95.0	605	314384 3KINGS M 115 314424 3YNNWS 58 115 1
314212	6FRRIVER	230	314222 6HANOVER	230	LN	755.8	612.0	797.0	94.8	282	314137 6FREDERG 230 314138 6MINE RD 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	84.4	75.4	89.0	94.8	641	314418 6WHEALTN 230 314421 6WINCHST 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	84.2	77.0	89.0	94.6	621	314398 6NP NEWS 230 314399 6PEMBROK 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	84.2	77.0	89.0	94.6	623	314399 6PEMBROK 230 314407 6SHELENK 230 1
314072	6PL VIEW	230	314925 8PL VIEW	500	TR	936.8	810.5	993.6	94.5	307	314171 6BRAMEL 230 314933 8BRAMBLETON 500 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	83.6	77.0	89.0	93.9	1224	314903 8CHCKAHH 500 314924 8SURREY 500 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	83.5	75.4	89.0	93.8	644	314422 3YORKTWN 115 314425 3YORK PS 115 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	83.5	75.4	89.0	93.8	646	314423 6YORKTWN 230 314425 3YORK PS 115 1
314218	6ELMONT	230	314222 6HANOVER	230	LN	745.9	568.3	797.0	93.6	285	314138 6MINE RD 230 314197 6LDYSMT1 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	83.2	77.0	89.0	93.5	637	314414 3WARWICK 115 314417 3WHEALTN 115 1

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:48 < UDF000.0 >
2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C

AC Bus Voltage Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:48 <V0V003.0>
2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C
Case.File X:\S2015\sum_2015(2013)LF_base_wpre_CSCNOSURRY230_altc.sav
Subsys.File X:\S2015\vdvp.sub
Monit.File X:\S2015\vdvapsys.mon
Contn.File X:\S2015\sum2015_single_ALT.con
Exclud.File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Upplimi t	VoltDro P	VoltRis e	Viol	Ncon	Contingency Description ** Base Case **
315218	ICUNINGC	18.0	345	366	1.0725	1.0725	0.9300	1.0700	1.0189	1.1261	H		
314641	IKITY H	115.0	345	361	1.0762	1.0434	0.9300	1.0700	0.9912	1.0956	H		46 LN 52
314646	IKITY 4	34.5	345	361	1.0762	1.0434	0.9300	1.0700	0.9912	1.0956	H		46 LN 52
314650	IKITY 5	34.5	345	361	1.0771	1.0443	0.9300	1.0700	0.9921	1.0965	H		46 LN 52
315146	IKITYHKA	13.8	345	361	1.0762	1.0434	0.9300	1.0700	0.9912	1.0956	H		46 LN 52
315147	IKITYHKB	13.8	345	361	1.0772	1.0444	0.9300	1.0700	0.9921	1.0966	H		46 LN 52
B\$1105	KITT 3W4	1.0	345	361	1.0762	1.0434	0.9300	1.0700	0.9912	1.0956	H		46 LN 52
B\$1106	KITT 3W5	1.0	345	361	1.0772	1.0444	0.9300	1.0700	0.9921	1.0966	H		46 LN 52
314524	IFRANKLN	115.0	345	360	1.0819	1.0258	0.9300	1.0700	0.9745	1.0771	HR		64 LN 68
314526	BRANDSON	115.0	345	360	1.0713	1.0237	0.9300	1.0700	0.9725	1.0749	H		64 LN 68
314534	3S HAMPT	115.0	345	360	1.0779	1.0259	0.9300	1.0700	0.9746	1.0772	HR		64 LN 68
314539	3UNCAMP	115.0	345	360	1.0855	1.0253	0.9300	1.0700	0.9740	1.0765	HR		64 LN 68
314541	3WATKINS	115.0	345	360	1.0802	1.0270	0.9300	1.0700	0.9757	1.0784	HR		64 LN 68
314824	3UNCAM 1	115.0	345	360	1.0862	1.0260	0.9300	1.0700	0.9747	1.0773	HR		64 LN 68
314826	3WATKI 1	115.0	345	360	1.0807	1.0275	0.9300	1.0700	0.9762	1.0789	HR		64 LN 68
314827	3WATKI 2	115.0	345	360	1.0807	1.0275	0.9300	1.0700	0.9762	1.0789	HR		64 LN 68
315115	ISHAMPT1	13.8	345	360	1.0495	0.9954	0.9300	1.0700	0.9457	1.0452	R		64 LN 68
314348	2GRETN 1	69.0	345	358	1.0741	1.0167	0.9300	1.0700	0.9659	1.0675	HR		156 LN 173
314731	2GRETN 2	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0673	HR		156 LN 173
314732	2GRNA FB	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0673	HR		156 LN 173
314874	21N 174	69.0	345	351	1.0796	1.0206	0.9300	1.0700	0.9696	1.0717	HR		157 LN 174
314878	21N 178	69.0	345	351	1.0796	1.0206	0.9300	1.0700	0.9696	1.0716	HR		159 LN 178
314879	21N 179	69.0	345	351	1.0796	1.0206	0.9300	1.0700	0.9696	1.0716	HR		160 LN 179
314880	21N 180	69.0	345	351	1.0798	1.0206	0.9300	1.0700	0.9696	1.0716	HR		161 LN 180
314122	3SOWEGO	115.0	345	353	0.9509	1.0033	0.9300	1.0700	0.9531	1.0535	D		162 LN 181
314051	310MA197	115.0	345	353	0.9563	1.0031	0.9300	1.0700	0.9530	1.0533	D		175 LN 197

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:48 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSIG15S11) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	UppLim t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314148	3MICR197	115.0	345	353	0.9419	1.0027	0.9300	1.0700	0.9526	1.0529	LD	175	LN 197
314158	3GOW197	115.0	345	353	0.9483	1.0026	0.9300	1.0700	0.9525	1.0528	D	175	LN 197
314402	6FENINSL	230.0	345	356	1.0732	1.0456	0.9300	1.0700	0.9933	1.0979	H	266	LN 288
314014	3CANNONE	115.0	345	353	0.9032	1.0038	0.9300	1.0700	0.9536	1.0540	LD	331	LN 2011
314051	3LOMA197	115.0	345	353	0.9034	1.0031	0.9300	1.0700	0.9530	1.0533	LD	331	LN 2011
314148	3MICR197	115.0	345	353	0.9034	1.0027	0.9300	1.0700	0.9526	1.0529	LD	331	LN 2011
314155	3CANBR T	115.0	345	353	0.9033	1.0032	0.9300	1.0700	0.9531	1.0534	LD	331	LN 2011
314158	3GOW197	115.0	345	353	0.9036	1.0026	0.9300	1.0700	0.9525	1.0528	LD	331	LN 2011
315001	LOMF A	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	333	LN 2013
315002	LOMF B	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	333	LN 2013
315083	3SPRUNCA	13.8	345	357	1.0152	0.9658	0.9300	1.0700	0.9175	1.0141	R	372	LN 2055
315085	3SPRUNCC	13.8	345	357	1.0166	0.9676	0.9300	1.0700	0.9192	1.0159	R	372	LN 2055
315008	1POSSM6A	18.0	345	353	0.9254	0.9385	0.9300	1.0700	0.8916	0.9854	L	400	LN 2090
315009	1POSSM6B	18.0	345	353	0.9254	0.9385	0.9300	1.0700	0.8916	0.9854	L	400	LN 2090
315008	1POSSM6A	18.0	345	353	0.9245	0.9385	0.9300	1.0700	0.8916	0.9854	L	412	LN 2104
315009	1POSSM6B	18.0	345	353	0.9245	0.9385	0.9300	1.0700	0.8916	0.9854	L	412	LN 2104
314180	GHAYES	230.0	345	354	0.9631	1.0403	0.9300	1.0700	0.9883	1.0923	D	428	LN 2122
314118	3MINN19V	115.0	345	353	0.9477	0.9988	0.9300	1.0700	0.9488	1.0487	D	475	TX-1 60K
314167	3OX	115.0	345	352	0.9478	1.0063	0.9300	1.0700	0.9560	1.0566	D	475	TX-1 60K
315008	1POSSM6A	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9854	L	480	TX-1 6POSSUM
315009	1POSSM6B	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9854	L	480	TX-1 6POSSUM
315008	1POSSM6A	18.0	345	353	0.9262	0.9385	0.9300	1.0700	0.8916	0.9854	L	486	TX-1 6POSSU4
315009	1POSSM6B	18.0	345	353	0.9262	0.9385	0.9300	1.0700	0.8916	0.9854	L	487	TX-1 6POSSU5
315008	1POSSM6A	18.0	345	353	0.9253	0.9385	0.9300	1.0700	0.8916	0.9854	L	488	TX-1 6POSSU6
315009	1POSSM6B	18.0	345	353	0.9253	0.9385	0.9300	1.0700	0.8916	0.9854	L	488	TX-1 6POSSU6
314122	3SCOWEGO	115.0	345	353	0.9515	1.0033	0.9300	1.0700	0.9531	1.0535	D	497	TX-1 6BRISTE
314156	3BRISTE	115.0	345	353	0.9515	1.0062	0.9300	1.0700	0.9559	1.0565	D	497	TX-1 6BRISTE
314049	3LOMA172	115.0	345	353	0.9283	0.9848	0.9300	1.0700	0.9355	1.0340	D	500	TX-1 6LIBERT
314123	3WELLGTN	115.0	345	353	0.9283	0.9873	0.9300	1.0700	0.9379	1.0367	LD	500	TX-1 6LIBERT
314141	3LIBERTY	115.0	345	353	0.9283	0.9883	0.9300	1.0700	0.9389	1.0378	LD	500	TX-1 6LIBERT
314147	3MICR172	115.0	345	353	0.9299	0.9848	0.9300	1.0700	0.9356	1.0341	LD	500	TX-1 6LIBERT
314157	3GOW172	115.0	345	353	0.9294	0.9858	0.9300	1.0700	0.9365	1.0351	LD	500	TX-1 6LIBERT

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:48 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:47 <BRV003.0>
 2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C
 Case.File X:\S2015\sum_2015(2013LF)_base_wpre_CSCNOSURRY230_altc.sav
 Subsys.File X:\S2015\advp.sub
 Monit.File X:\S2015\vapsys.mon
 Contin.File X:\S2015\sum2015_single_ALT.con
 Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 93.5 % of nominal rating

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	97.9	77.0	89.0	110.0	53	LN 58a
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	96.4	75.4	89.0	108.3	53	LN 58a
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	95.2	77.0	89.0	106.9	410	LN 2102
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	93.6	75.4	89.0	105.1	410	LN 2102
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	93.0	77.0	89.0	104.5	186	LN 209
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	94.4	75.4	89.0	102.7	186	LN 209
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	90.5	77.0	89.0	101.7	192	LN 214
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	89.4	77.0	89.0	100.4	52	LN 58
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	89.3	77.0	89.0	100.3	241	LN 263
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	88.9	75.4	89.0	99.9	192	LN 214
314757	3GORDNL	115	314776 3SOMRSET	115	LN	LN	238.1	139.6	239.0	99.6	230	LN 255
314212	6FRRIVER	230	314222 6HANOVER	230	LN	LN	789.2	612.0	797.0	99.0	400	LN 2090
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	88.1	77.0	89.0	99.0	420	LN 2113
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	87.8	75.4	89.0	98.6	52	LN 58
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	87.7	75.4	89.0	98.6	241	LN 263
314559	3CAROLNA	115	314581 3JACKSON	115	LN	LN	116.0	75.9	118.0	98.3	332	LN 2012
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	87.3	77.0	89.0	98.1	262	LN 285
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	87.2	77.0	89.0	98.0	210	LN 234
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	86.5	75.4	89.0	97.2	420	LN 2113
314387	3LANEXA	115	314388 6LANEXA	230	TR	TR	185.0	90.5	191.7	96.5	420	LN 2113
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	85.7	75.4	89.0	96.3	210	LN 234
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	85.7	75.4	89.0	96.3	262	LN 285
314581	3JACKSON	115	314626 3WOODLND	115	LN	LN	113.4	73.3	118.0	96.1	332	LN 2012

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:48 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C

**	From bus	** **	To bus	** CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314461	3DEEPC46	115	314513 3YADKIN	115	LN	345.4	230.4	360.0	95.9	239	LN 262
314378	3FTEUS34	115	314381 3GRAFT34	115	LN	85.0	64.0	89.0	95.5	53	LN 58a
314377	3DOW 34	115	314387 3LANEXA	115	LN	84.9	77.0	89.0	95.4	581	TX-1 3YORKTW
314377	3DOW 34	115	314387 3LANEXA	115	LN	84.9	77.0	89.0	95.4	583	TX-1 6YORKTW
314377	3DOW 34	115	314387 3LANEXA	115	LN	84.4	77.0	89.0	94.8	236	LN 261
314072	6PL VIEW	230	314925 8PL VIEW	500	TR	938.8	810.5	993.6	94.5	509	TX-1 8BRAMBL
314377	3DOW 34	115	314387 3LANEXA	115	LN	83.6	77.0	89.0	93.9	308	LN 567
314377	3DOW 34	115	314378 3FTEUS34	115	LN	83.5	75.4	89.0	93.8	581	TX-1 3YORKTW
314377	3DOW 34	115	314378 3FTEUS34	115	LN	83.5	75.4	89.0	93.8	583	TX-1 6YORKTW
314218	6ELMONT	230	314222 6HANOVER	230	LN	745.4	568.3	797.0	93.5	400	LN 2090

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:53 <UDF000.0 >
 2015 SUMMER BASE CASE (LTS615511) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C

AC Bus Voltage Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:53 <VOV003.0>
 2015 SUMMER BASE CASE (LTS615511) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C
 Case.File X:\S2015\sum 2015(2013LF)_base_wpre_CSCNOSURRY230_altrc.sav
 Subsys.File X:\S2015\wvp.sub
 Monit.File X:\S2015\wvapsys.mon
 Contn.File X:\S2015\wvapsys.con
 Exclud.File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	UppLimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
315218	LCUNINGC	18.0	345	366	1.0725	1.0725	0.9300	1.0700	1.0189	1.1261	H	**	Base Case **
314014	3CANNONB	115.0	345	353	0.9074	1.0038	0.9300	1.0700	0.9536	1.0540	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314051	3LOMA197	115.0	345	353	0.9077	1.0031	0.9300	1.0700	0.9530	1.0533	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314148	3MICR197	115.0	345	353	0.9077	1.0027	0.9300	1.0700	0.9526	1.0529	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314155	3CANBR T	115.0	345	353	0.9076	1.0032	0.9300	1.0700	0.9531	1.0534	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314158	3GOWI197	115.0	345	353	0.9079	1.0026	0.9300	1.0700	0.9525	1.0528	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314051	3LOMA197	115.0	345	353	0.9225	1.0031	0.9300	1.0700	0.9530	1.0533	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314148	3MICR197	115.0	345	353	0.9224	1.0027	0.9300	1.0700	0.9526	1.0529	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314155	3CANBR T	115.0	345	353	0.9224	1.0032	0.9300	1.0700	0.9531	1.0534	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314160	1 TX503	13.2	345	353	1.4080	1.0007	0.9300	1.0700	0.9507	1.0508	HR	96	314025 1 TX500 13.2 314160 1 TX503 13.2 21
315001	LOMF A	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	175	314067 60CCOQUIN 230 314068 60X 230 1
315002	LOMF B	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	175	314067 60CCOQUIN 230 314068 60X 230 1
314118	3MINNIEV	115.0	345	353	0.9477	0.9988	0.9300	1.0700	0.9488	1.0487	D	179	314068 60X 230 314167 30X 115 1
314167	30X	115.0	345	352	0.9478	1.0063	0.9300	1.0700	0.9560	1.0566	D	179	314068 60X 230 314167 30X 115 1
315008	1POSSM6A	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9854	L	191	314073 3POSSUM 115 314074 6POSSUM 230 1
315009	1POSSM6B	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9854	L	191	314073 3POSSUM 115 314074 6POSSUM 230 1
315009	1POSSM6B	18.0	345	353	0.9262	0.9385	0.9300	1.0700	0.8916	0.9854	L	204	314074 6POSSUM 230 315008 1POSSM6A 18.0 1
315008	1POSSM6A	18.0	345	353	0.9262	0.9385	0.9300	1.0700	0.8916	0.9854	L	205	314074 6POSSUM 230 315009 1POSSM6B 18.0 1
315008	1POSSM6A	18.0	345	353	0.9253	0.9385	0.9300	1.0700	0.8916	0.9854	L	206	314074 6POSSUM 230 315010 1POSSM6S 18.0 1
315009	1POSSM6B	18.0	345	353	0.9253	0.9385	0.9300	1.0700	0.8916	0.9854	L	206	314074 6POSSUM 230 315010 1POSSM6S 18.0 1
314118	3MINNIEV	115.0	345	353	0.9461	0.9988	0.9300	1.0700	0.9488	1.0487	D	255	314118 3MINNIEV 115 314167 30X 115 1
314122	3SOWEGO	115.0	345	353	0.9509	1.0033	0.9300	1.0700	0.9531	1.0535	D	259	314122 3SOWEGO 115 314156 3BRISTER 115 1
314049	3LOMA172	115.0	345	353	0.9299	0.9848	0.9300	1.0700	0.9355	1.0340	LD	260	314123 3WELLGTON 115 314141 3LIBERTY 115 1
314123	3WELLGTON	115.0	345	353	0.9282	0.9873	0.9300	1.0700	0.9379	1.0367	LD	260	314123 3WELLGTON 115 314141 3LIBERTY 115 1
314147	3MICR172	115.0	345	353	0.9298	0.9848	0.9300	1.0700	0.9356	1.0341	LD	260	314123 3WELLGTON 115 314141 3LIBERTY 115 1
314157	3GOWI172	115.0	345	353	0.9292	0.9858	0.9300	1.0700	0.9365	1.0351	LD	260	314123 3WELLGTON 115 314141 3LIBERTY 115 1
314122	3SOWEGO	115.0	345	353	0.9515	1.0033	0.9300	1.0700	0.9531	1.0535	D	263	314130 6BRISTER 230 314156 3BRISTER 115 1

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:53 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSIG15S11) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	Upplimi t	VoltDro p	VoltRis e	Viol	Noon	Contingency Description
314156	3BRISTER	115.0	345	353	0.9515	1.0062	0.9300	0.9559	1.0565	D	263	314130 5BRISTER 230 314156 3BRISTER 115 1
314049	3LOMA172	115.0	345	353	0.9301	0.9848	0.9300	0.9355	1.0340	D	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314123	3WELLTWN	115.0	345	353	0.9283	0.9873	0.9300	0.9379	1.0367	D	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314141	3LIBERTY	115.0	345	353	0.9283	0.9883	0.9300	0.9389	1.0378	D	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314147	3MTCR172	115.0	345	353	0.9299	0.9848	0.9300	0.9356	1.0341	D	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314157	3GODM172	115.0	345	353	0.9294	0.9858	0.9300	0.9365	1.0351	D	269	314133 6LIBERTY 230 314141 3LIBERTY 115 1
314775	3NI RVER	115.0	345	363	0.9551	1.0143	0.9300	0.9636	1.0651	D	275	314135 3CHANCE 115 314775 3NI RVER 115 1
314151	3SLABTWN	115.0	345	355	0.9530	1.0061	0.9300	0.9558	1.0564	D	280	314136 3FREDARG 115 314151 3SLABTWN 115 1
315008	1POSSM6A	18.0	345	353	0.9254	0.9385	0.9300	0.8916	0.9854	L	282	314137 3FREDARG 230 314138 6MINE RD 230 1
315009	1POSSM6B	18.0	345	353	0.9254	0.9385	0.9300	0.8916	0.9854	L	282	314137 3FREDARG 230 314138 6MINE RD 230 1
315008	1POSSM6A	18.0	345	353	0.9243	0.9385	0.9300	0.8916	0.9854	L	289	314142 3STARFORD 230 314145 6ACUI HARB B 230 1
315009	1POSSM6B	18.0	345	353	0.9243	0.9385	0.9300	0.8916	0.9854	L	289	314142 3STARFORD 230 314145 6ACUI HARB B 230 1
314148	3MTCR197	115.0	345	353	0.9229	1.0027	0.9300	0.9526	1.0529	D	295	314148 3MTCR197 115 314155 3CANBR T 115 1
314158	3GODM197	115.0	345	353	0.9229	1.0026	0.9300	0.9525	1.0528	D	295	314148 3MTCR197 115 314155 3CANBR T 115 1
314176	3HARMONY	230.0	345	354	1.1548	1.0272	0.9300	0.9759	1.0786	HR	318	314176 3HARMONY 230 314189 3PAPERHILL 230 1
314180	3HAYES	230.0	345	354	1.1548	1.0403	0.9300	0.9883	1.0923	D	321	314180 3HAYES 230 314423 3YORKTWN 230 1
314259	3CAR56 1	115.0	345	362	1.1469	1.0190	0.9300	0.9680	1.0699	HR	431	314259 3CAR56 1 115 314559 3CAROLNA 115 1
314526	3HANDSON	115.0	345	360	1.0760	1.0237	0.9300	0.9723	1.0749	HR	431	314259 3CAR56 1 115 314559 3CAROLNA 115 1
314534	3S HAMPT	115.0	345	360	1.0742	1.0259	0.9300	0.9746	1.0772	H	431	314259 3CAR56 1 115 314559 3CAROLNA 115 1
314541	3WATKINS	115.0	345	360	1.0741	1.0270	0.9300	0.9757	1.0784	H	431	314259 3CAR56 1 115 314559 3CAROLNA 115 1
314556	3BRYKINS	115.0	345	362	1.0805	1.0186	0.9300	0.9677	1.0695	HR	431	314259 3CAR56 1 115 314559 3CAROLNA 115 1
314587	3MARGTSTV	115.0	345	362	1.1039	1.0173	0.9300	0.9665	1.0682	HR	431	314259 3CAR56 1 115 314559 3CAROLNA 115 1
314604	3SEABORD	115.0	345	362	1.1154	1.0169	0.9300	0.9660	1.0677	HR	431	314259 3CAR56 1 115 314559 3CAROLNA 115 1
314826	3WATKI 1	115.0	345	360	1.0747	1.0275	0.9300	0.9762	1.0789	H	431	314259 3CAR56 1 115 314559 3CAROLNA 115 1
314827	3WATKI 2	115.0	345	360	1.0747	1.0275	0.9300	0.9762	1.0789	H	431	314259 3CAR56 1 115 314559 3CAROLNA 115 1
314835	3CAROL 1	115.0	345	362	1.1469	1.0200	0.9300	0.9690	1.0710	HR	431	314259 3CAR56 1 115 314559 3CAROLNA 115 1
315115	1SHAMPT1	13.8	345	360	1.0456	0.9954	0.9300	0.9457	1.0452	R	431	314259 3CAR56 1 115 314559 3CAROLNA 115 1
315085	1SPRUNCA	13.8	345	357	1.0152	0.9658	0.9300	0.9175	1.0141	R	464	314275 3BELMEAD 230 314276 3BASIN 230 1
315085	1SPRUNCC	13.8	345	357	1.0166	0.9676	0.9300	0.9192	1.0159	R	464	314275 3BELMEAD 230 314276 3BASIN 230 1
314328	3ELAZA	230.0	345	357	0.9109	1.0053	0.9300	0.9551	1.0556	D	566	314328 3ELAZA 230 314338 3SOUNEST 230 1
315111	1ILKINGA	13.8	345	359	0.9935	0.9461	0.9300	0.8988	0.9934	R	696	314453 3CHILLAND 230 314653 3CHILL 1 230 1
315112	1ILKINGB	13.8	345	359	0.9935	0.9461	0.9300	0.8988	0.9934	R	696	314453 3CHILLAND 230 314653 3CHILL 1 230 1
314524	3FRNKLN	115.0	345	360	1.0753	1.0258	0.9300	0.9745	1.0771	H	795	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314527	3HOLLAND	115.0	345	360	1.0773	1.0145	0.9300	0.9638	1.0653	HR	795	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314534	3S HAMPT	115.0	345	360	1.0717	1.0259	0.9300	0.9746	1.0772	H	795	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314539	3UNCAMP	115.0	345	360	1.0785	1.0253	0.9300	0.9740	1.0765	HR	795	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314541	3WATKINS	115.0	345	360	1.0739	1.0210	0.9300	0.9757	1.0784	H	795	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314824	3UNCAM 1	115.0	345	360	1.0792	1.0260	0.9300	0.9747	1.0773	HR	795	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314826	3WATKI 1	115.0	345	360	1.0744	1.0275	0.9300	0.9762	1.0789	H	795	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314827	3WATKI 2	115.0	345	360	1.0744	1.0275	0.9300	0.9762	1.0789	H	795	314527 3HOLLAND 115 314536 3SUFFOLK 115 1
314524	3FRNKLN	115.0	345	360	1.0818	1.0258	0.9300	0.9745	1.0771	HR	796	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314526	3HANDSON	115.0	345	360	1.0712	1.0237	0.9300	0.9725	1.0749	H	796	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314534	3S HAMPT	115.0	345	360	1.0778	1.0259	0.9300	0.9746	1.0772	HR	796	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314539	3UNCAMP	115.0	345	360	1.0854	1.0253	0.9300	0.9740	1.0765	HR	796	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314541	3WATKINS	115.0	345	360	1.0802	1.0270	0.9300	0.9757	1.0784	HR	796	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314824	3UNCAM 1	115.0	345	360	1.0861	1.0260	0.9300	0.9747	1.0773	HR	796	314527 3HOLLAND 115 314539 3UNCAMP 115 1

PSS(nrm)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 10:53 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSGL5511) REV. 04/02/2012
 2013 LF WPREPROJECT GEN RET CSC NO SURRY230KV ALT C

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Uplimi t	VolDro p	VolRts e	Viol	Neon	Contingency Description
314826	3WATKI 1	115.0	345	360	1.0807	1.0275	0.9300	1.0700	0.9762	1.0789	HR	796	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314827	3WATKI 2	115.0	345	360	1.0807	1.0275	0.9300	1.0700	0.9762	1.0789	HR	796	314527 3HOLLAND 115 314539 3UNCAMP 115 1
315115	13HAMP1	13.8	345	360	1.0494	0.9954	0.9300	1.0700	0.9457	1.0452	R	796	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314826	3WATKI 1	115.0	345	360	1.0703	1.0275	0.9300	1.0700	0.9762	1.0789	H	801	314534 3S HAMP1 115 314541 3WATKINS 115 1
314827	3WATKI 2	115.0	345	360	1.0703	1.0275	0.9300	1.0700	0.9762	1.0789	H	801	314534 3S HAMP1 115 314541 3WATKINS 115 1
314571	3BRUNS 1	115.0	345	358	1.0797	1.0086	0.9300	1.0700	0.9582	1.0590	HR	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314565	3CLUBH71	115.0	345	362	1.1029	1.0012	0.9300	1.0700	0.9511	1.0512	HR	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314675	3BRONAX	115.0	345	358	1.0691	1.0066	0.9300	1.0700	0.9562	1.0569	R	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314676	3BRUNSWK	115.0	345	358	1.0792	1.0081	0.9300	1.0700	0.9577	1.0585	HR	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314693	3FRMAN D	115.0	345	358	1.0941	1.0038	0.9300	1.0700	0.9536	1.0540	HR	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314704	3LAHENC	115.0	345	358	1.0845	1.0066	0.9300	1.0700	0.9563	1.0570	HR	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314721	3SO HILL	115.0	345	358	1.0574	1.0049	0.9300	1.0700	0.9547	1.0551	R	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314782	2BRUNSWC	69.0	345	358	1.1016	1.0283	0.9300	1.0700	0.9769	1.0797	HR	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314785	2DANLWN	69.0	345	358	1.0493	0.9759	0.9300	1.0700	0.9271	1.0247	R	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314786	2GASBURG	69.0	345	358	1.0867	1.0123	0.9300	1.0700	0.9617	1.0629	HR	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314787	2BRUNSW2	69.0	345	358	1.0726	1.0010	0.9300	1.0700	0.9509	1.0510	HR	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314850	3CLUBHS 1	115.0	345	362	1.1035	1.0017	0.9300	1.0700	0.9516	1.0518	HR	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314872	2BRUNSWC	69.0	345	358	1.0604	0.9878	0.9300	1.0700	0.9384	1.0372	R	855	314562 3CLUBHSE 115 314565 3CLUBH71 115 21
314641	3KITTY H	115.0	345	361	1.0762	1.0434	0.9300	1.0700	0.9912	1.0956	H	940	314635 3COLNGTTP 115 314641 3KITTY H 115 1
314646	1KITTY 4	34.5	345	361	1.0762	1.0434	0.9300	1.0700	0.9912	1.0956	H	940	314635 3COLNGTTP 115 314641 3KITTY H 115 1
314650	1KITTY 5	34.5	345	361	1.0771	1.0443	0.9300	1.0700	0.9921	1.0965	H	940	314635 3COLNGTTP 115 314641 3KITTY H 115 1
315147	1KITTYHKA	13.8	345	361	1.0762	1.0444	0.9300	1.0700	0.9912	1.0956	H	940	314635 3COLNGTTP 115 314641 3KITTY H 115 1
315147	1KITTYHKB	13.8	345	361	1.0772	1.0444	0.9300	1.0700	0.9921	1.0966	H	940	314635 3COLNGTTP 115 314641 3KITTY H 115 1
BS1105	KITT 3W4	1.0	345	361	1.0762	1.0434	0.9300	1.0700	0.9912	1.0956	H	940	314635 3COLNGTTP 115 314641 3KITTY H 115 1
BS1106	KITT 3W5	1.0	345	361	1.0772	1.0444	0.9300	1.0700	0.9921	1.0966	H	940	314635 3COLNGTTP 115 314641 3KITTY H 115 1
314635	3COLNGTTP	115.0	345	361	1.0770	1.0286	0.9300	1.0700	0.9772	1.0800	H	941	314635 3COLNGTTP 115 314720 3 52T190 115 1
314641	3KITTY H	115.0	345	361	1.0768	1.0434	0.9300	1.0700	0.9912	1.0956	H	941	314635 3COLNGTTP 115 314720 3 52T190 115 1
314646	1KITTY 4	34.5	345	361	1.0768	1.0434	0.9300	1.0700	0.9912	1.0956	H	941	314635 3COLNGTTP 115 314720 3 52T190 115 1
314650	1KITTY 5	34.5	345	361	1.0777	1.0443	0.9300	1.0700	0.9921	1.0965	H	941	314635 3COLNGTTP 115 314720 3 52T190 115 1
314829	3COLIN 1	115.0	345	361	1.0770	1.0286	0.9300	1.0700	0.9772	1.0800	H	941	314635 3COLNGTTP 115 314720 3 52T190 115 1
315146	1KITTYHKA	13.8	345	361	1.0768	1.0434	0.9300	1.0700	0.9912	1.0956	H	941	314635 3COLNGTTP 115 314720 3 52T190 115 1
315147	1KITTYHKB	13.8	345	361	1.0777	1.0444	0.9300	1.0700	0.9921	1.0966	H	941	314635 3COLNGTTP 115 314720 3 52T190 115 1
BS1105	KITT 3W4	1.0	345	361	1.0768	1.0434	0.9300	1.0700	0.9912	1.0956	H	941	314635 3COLNGTTP 115 314720 3 52T190 115 1
BS1106	KITT 3W5	1.0	345	361	1.0777	1.0444	0.9300	1.0700	0.9921	1.0966	H	941	314635 3COLNGTTP 115 314720 3 52T190 115 1
314348	2GRETN 1	69.0	345	358	1.0803	1.0167	0.9300	1.0700	0.9659	1.0675	HR	1048	314731 2GRETN 69.0 314732 2GRNA FB 69.0 21
314732	2GRNA FB	69.0	345	358	1.0802	1.0164	0.9300	1.0700	0.9656	1.0673	HR	1048	314731 2GRETN 69.0 314732 2GRNA FB 69.0 21
314737	2BRUNSW2	69.0	345	358	1.0702	1.0201	0.9300	1.0700	0.9691	1.0711	H	1048	314731 2GRETN 69.0 314732 2GRNA FB 69.0 21
314739	2MT A TP	69.0	345	358	1.0741	1.0201	0.9300	1.0700	0.9691	1.0711	H	1048	314731 2GRETN 69.0 314732 2GRNA FB 69.0 21
314348	2GRETN 1	69.0	345	358	1.0741	1.0167	0.9300	1.0700	0.9659	1.0675	HR	1049	314731 2GRETN 69.0 314733 2GRNA DP 69.0 1
314731	2GRETN 1	69.0	345	358	1.0739	1.0164	0.9300	1.0700	0.9656	1.0673	HR	1049	314731 2GRETN 69.0 314733 2GRNA DP 69.0 1
314732	2GRNA FB	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0673	HR	1049	314731 2GRETN 69.0 314733 2GRNA DP 69.0 1
314763	3KIDUSTO	115.0	345	363	0.9225	0.9931	0.9300	1.0700	0.9435	1.0428	LD	1062	314744 3BEMO 115 314763 3KIDUSTO 115 1

CATEGORY B

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 12:09 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPCT GEN RET CSC NO SURRY230KV ALT C OPENL3458

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 12:08 <BRV003.0>
 2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPCT GEN RET CSC NO SURRY230KV ALT C OPENL3458
 Case.File X:\S2015\sum_2015(2013LF)_base_wpre_CSCNOSURRY230_a1tc_open3458.sav
 Subsys.File X:\S2015\drv.sub
 Monit.File X:\S2015\vapsys.mon
 Contin.File X:\S2015\vapsys.con
 Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 93.5 % of nominal rating

**	From bus	** **	To bus	** CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314391	6LIGH209	230	314415 6WALR209	230	LN	512.0	343.8	470.0	108.9	371	314214 6CHCKAHM 230 314390 6LIGH285 230 1
314391	6LIGH209	230	314415 6WALR209	230	LN	481.4	343.8	470.0	102.4	611	314390 6LIGH285 230 314413 6WALR285 230 1
314757	3GORDNVL	115	314776 3SCMRSET	115	LN	238.7	139.5	239.0	99.9	1096	314766 6LOUISA 230 314777 6S ANNA 230 1
314559	3CAROLNA	115	314581 3JACKSON	115	LN	117.1	76.1	118.0	99.2	441	314266 6NORTHAMPTON 230 314599 6ROA VAL 230 1
314212	6FRIVER	230	314222 6HANOVER	230	LN	789.9	611.8	797.0	99.0	285	314138 6MINE RD 230 314197 6LDYSMT1 230 1
314559	3CAROLNA	115	314581 3JACKSON	115	LN	115.9	76.1	118.0	98.3	440	314266 6NORTHAMPTON 230 314569 6EARLEYS 230 1
314757	3GORDNVL	115	314776 3SCMRSET	115	LN	234.2	139.5	239.0	98.0	401	314232 6NO ANNA 230 314766 6LOUISA 230 1
304223	3ROCKYMT115T	115	314554 3BTLEBRO	115	LN	91.8	19.2	94.0	97.6	844	314559 3CAROLNA 115 314578 3HORNRTN 115 1
314391	6LIGH209	230	314415 6WALR209	230	LN	456.4	343.8	470.0	97.1	595	314376 6DENBIGH 230 314413 6WALR285 230 1
314581	3JACKSON	115	314626 3WOODLND	115	LN	114.5	73.5	118.0	97.0	441	314266 6NORTHAMPTON 230 314599 6ROA VAL 230 1
314581	3JACKSON	115	314626 3WOODLND	115	LN	113.3	73.5	118.0	96.1	440	314266 6NORTHAMPTON 230 314569 6EARLEYS 230 1
314461	3DEEPC46	115	314513 3YADKIN	115	LN	345.6	230.6	360.0	96.0	686	314449 6CHESAPK 230 314514 6YADKIN 230 1
314212	6FRIVER	230	314222 6HANOVER	230	LN	755.0	611.8	797.0	94.7	282	314137 6PREDEBG 230 314138 6MINE RD 230 1
314465	6ELIZ R	230	315110 1ELIZAR3	13.8	TR	123.0	123.0	130.0	94.6	**	Base Case **
314072	6PL VIEW	230	314925 8PL VIEW	500	TR	938.7	810.4	993.6	94.5	307	314171 6BRAMBL 230 314933 8BRAMBLETON 500 1
314296	6PENNTMAN	230	314415 6WALR209	230	LN	444.2	278.9	470.0	94.5	371	314214 6CHCKAHM 230 314390 6LIGH285 230 1
314218	6ELMONT	230	314222 6HANOVER	230	LN	745.2	568.1	797.0	93.5	285	314138 6MINE RD 230 314197 6LDYSMT1 230 1

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 12:09 < UDF000.0 >
2013 SUMMER BASE CASE (ITSGL5511) REV. 04/02/2012
2013 LF WPREPRICT GEN RET CSC NO SURRY230KV ALT C OPENL3458
2013 LF WPREPRICT GEN RET CSC NO SURRY230KV ALT C OPENL3458

AC Bus Voltage Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 12:09 <VOW003.0>

2015 SUMMER BASE CASE (ITSGL5511) REV. 04/02/2012
2013 LF WPREPRICT GEN RET CSC NO SURRY230KV ALT C OPENL3458
Case.File X:\S2015\sum_2015(2013LF)_base_wpre_CSCNOSURRY230_alc_open3458.sav
Subsys.File X:\S2015\drv.sub
Monit.File X:\S2015\wapsys.mon
Contn.File X:\S2015\wapsys.con
Exclud.File none

***** Report on Violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	UppLimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
315218	LCVNINGC	18.0	345	366	1.0725	1.0725	0.9300	1.0700	1.0189	1.1261	H	**	Base Case **
314014	3CANNONB	115.0	345	353	0.9075	1.0038	0.9300	1.0700	0.9536	1.0540	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314051	3LOMAL197	115.0	345	353	0.9077	1.0031	0.9300	1.0700	0.9530	1.0533	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314148	3MTCRI197	115.0	345	353	0.9077	1.0027	0.9300	1.0700	0.9526	1.0529	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314155	3CANBR T	115.0	345	353	0.9076	1.0032	0.9300	1.0700	0.9531	1.0534	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314158	3GOWM197	115.0	345	353	0.9079	1.0026	0.9300	1.0700	0.9525	1.0528	LD	69	314014 3CANNONB 115 314016 6CANNONB 230 1
314051	3LOMAL197	115.0	345	353	0.9225	1.0031	0.9300	1.0700	0.9530	1.0533	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314148	3MTCRI197	115.0	345	353	0.9224	1.0027	0.9300	1.0700	0.9531	1.0534	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314155	3CANBR T	115.0	345	353	0.9225	1.0026	0.9300	1.0700	0.9525	1.0528	LD	70	314014 3CANNONB 115 314155 3CANBR T 115 1
314160	1 TX503	13.2	345	353	1.1080	1.0007	0.9300	1.0700	0.9507	1.0508	HR	96	314025 1 TX500 13.2 314160 1 TX503 13.2 21
315001	1OMF A	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	175	314067 60CCOQUIN 230 314068 60X 230 1
315002	1OMF B	13.8	345	351	1.0328	0.9778	0.9300	1.0700	0.9289	1.0267	R	175	314067 60CCOQUIN 230 314068 60X 230 1
314118	3MINNIEV	115.0	345	353	0.9477	0.9988	0.9300	1.0700	0.9489	1.0487	D	179	314068 60X 230 314167 30X 115 1
314167	30X	115.0	345	352	0.9478	1.0063	0.9300	1.0700	0.9560	1.0566	D	179	314068 60X 230 314167 30X 115 1
315008	1POSSM6A	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9854	L	191	314073 3FOSSUM 115 314074 6FOSSUM 230 1
315009	1POSSM6B	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9854	L	191	314073 3FOSSUM 115 314074 6FOSSUM 230 1
315008	1POSSM6A	18.0	345	353	0.9262	0.9385	0.9300	1.0700	0.8916	0.9854	L	204	314074 6FOSSUM 230 315009 1POSSM6A 18.0 1
315008	1POSSM6A	18.0	345	353	0.9253	0.9385	0.9300	1.0700	0.8916	0.9854	L	205	314074 6FOSSUM 230 315009 1POSSM6B 18.0 1
315009	1POSSM6B	18.0	345	353	0.9253	0.9385	0.9300	1.0700	0.8916	0.9854	L	206	314074 6FOSSUM 230 315010 1POSSM6S 18.0 1
314118	3MINNIEV	115.0	345	353	0.9461	0.9988	0.9300	1.0700	0.9489	1.0487	D	255	314122 3BOWEGO 115 314156 3BRISTER 115 1
314049	3LOMAL172	115.0	345	353	0.9299	0.9848	0.9300	1.0700	0.9355	1.0340	LD	260	314123 3WELLGYN 115 314141 3LIBERTY 115 1
314123	3WELLGYN	115.0	345	353	0.9282	0.9873	0.9300	1.0700	0.9379	1.0367	LD	260	314123 3WELLGYN 115 314141 3LIBERTY 115 1
314147	3MTCRI172	115.0	345	353	0.9298	0.9858	0.9300	1.0700	0.9356	1.0341	LD	260	314123 3WELLGYN 115 314141 3LIBERTY 115 1
314157	3GOWM172	115.0	345	353	0.9292	0.9858	0.9300	1.0700	0.9365	1.0351	LD	260	314123 3WELLGYN 115 314141 3LIBERTY 115 1
314122	3BOWEGO	115.0	345	353	0.9515	1.0033	0.9300	1.0700	0.9532	1.0535	D	263	314130 6BRISTER 230 314156 3BRISTER 115 1

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 12:09 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSIG15S11) REV. 04/02/2012
 2013 LF WPREPCT GEN RET CSC NO SURRY230KV ALT C OPEN13458

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	Lowlimi t	Upllimi t	VoltDro p	VoltRis e	Viol	Noon	Contingency Description
314156	BRISTER	115.0	345	353	0.9515	1.0062	0.9300	1.0700	0.9559	1.0565	D	263	314130 BRISTER 230 314156 BRISTER 115 1
314049	314049	115.0	345	353	0.9301	0.9848	0.9300	1.0700	0.9355	1.0340	D	269	314133 BRISTER 230 314141 LIBERTY 115 1
314123	314123	115.0	345	353	0.9283	0.9873	0.9300	1.0700	0.9379	1.0367	D	269	314133 BRISTER 230 314141 LIBERTY 115 1
314141	314141	115.0	345	353	0.9283	0.9883	0.9300	1.0700	0.9389	1.0378	D	269	314133 BRISTER 230 314141 LIBERTY 115 1
314147	314147	115.0	345	353	0.9299	0.9848	0.9300	1.0700	0.9356	1.0341	D	269	314133 BRISTER 230 314141 LIBERTY 115 1
314157	314157	115.0	345	353	0.9254	0.9858	0.9300	1.0700	0.9365	1.0351	D	269	314133 BRISTER 230 314141 LIBERTY 115 1
314175	314175	115.0	345	353	0.9551	1.0143	0.9300	1.0700	0.9636	1.0651	D	275	314135 CHANCE 115 314775 3NI RVER 115 1
314151	314151	115.0	345	355	0.9530	1.0061	0.9300	1.0700	0.9558	1.0564	D	280	314136 3FREDRNG 115 314151 3SLABTWN 115 1
315008	1POSSM6A	18.0	345	353	0.9251	0.9385	0.9300	1.0700	0.8916	0.9854	L	282	314137 6FREDRNG 230 314138 6MINE RD 230 1
315009	1POSSM6B	18.0	345	353	0.9251	0.9385	0.9300	1.0700	0.8916	0.9854	L	282	314137 6FREDRNG 230 314138 6MINE RD 230 1
315008	1POSSM6A	18.0	345	353	0.9243	0.9385	0.9300	1.0700	0.8916	0.9854	L	289	314142 6STAFORD 230 314145 6AQUI HARB B 230 1
315009	1POSSM6B	18.0	345	353	0.9243	0.9385	0.9300	1.0700	0.8916	0.9854	L	289	314142 6STAFORD 230 314145 6AQUI HARB B 230 1
314158	314158	115.0	345	353	0.9227	1.0026	0.9300	1.0700	0.9525	1.0528	D	295	314148 3MICKR197 115 314155 3CANBR T 115 1
314176	314176	230.0	345	354	2.365	1.0271	0.9300	1.0700	0.9757	1.0785	HR	318	314176 6HARMONY 230 314189 6PAPERHILL 230 1
314180	314180	230.0	345	354	0.9631	1.0406	0.9300	1.0700	0.9886	1.0926	D	321	314180 6HAYES 230 314423 6YORKTWN 230 1
314259	314259	115.0	345	362	1.455	1.0189	0.9300	1.0700	0.9680	1.0699	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314526	314526	115.0	345	360	1.0759	1.0235	0.9300	1.0700	0.9724	1.0747	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314534	314534	115.0	345	360	1.0740	1.0257	0.9300	1.0700	0.9745	1.0770	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314541	314541	115.0	345	360	1.0740	1.0257	0.9300	1.0700	0.9745	1.0770	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314558	314558	115.0	345	362	1.0803	1.0185	0.9300	1.0700	0.9676	1.0694	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314587	314587	115.0	345	362	1.0337	1.0172	0.9300	1.0700	0.9664	1.0681	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314604	314604	115.0	345	362	1.455	1.0188	0.9300	1.0700	0.9659	1.0676	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314826	314826	115.0	345	360	1.0745	1.0274	0.9300	1.0700	0.9760	1.0788	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314827	314827	115.0	345	360	1.0745	1.0274	0.9300	1.0700	0.9760	1.0788	H	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
314835	314835	115.0	345	362	1.4739	1.0200	0.9300	1.0700	0.9690	1.0710	HR	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
315115	315115	13.8	345	360	1.0455	0.9953	0.9300	1.0700	0.9455	1.0451	R	431	314259 3CAR56 1 115 314559 3CAROLINA 115 1
315083	315083	13.8	345	357	1.0152	0.9658	0.9300	1.0700	0.9175	1.0141	R	464	314275 6BELMEAD 230 314276 6BASIN 230 1
315085	315085	13.8	345	357	1.0167	0.9676	0.9300	1.0700	0.9192	1.0160	R	464	314275 6BELMEAD 230 314276 6BASIN 230 1
314328	314328	230.0	345	357	0.9103	1.0053	0.9300	1.0700	0.9551	1.0556	D	566	314328 6PLAZA 230 314338 6SOUTWEST 230 1
315111	315111	13.8	345	359	0.9934	0.9460	0.9300	1.0700	0.8987	0.9933	R	694	314453 6CHRLND 230 314653 6CHRL 1 230 1
315112	315112	13.8	345	359	0.9934	0.9460	0.9300	1.0700	0.8987	0.9933	R	694	314453 6CHRLND 230 314653 6CHRL 1 230 1
314524	314524	115.0	345	360	1.0752	1.0256	0.9300	1.0700	0.9744	1.0769	H	793	314527 3HOLLAND 115 314536 3SUUFFOLK 115 1
314527	314527	115.0	345	360	1.0728	1.0144	0.9300	1.0700	0.9637	1.0651	HR	793	314527 3HOLLAND 115 314536 3SUUFFOLK 115 1
314534	314534	115.0	345	360	1.0716	1.0257	0.9300	1.0700	0.9745	1.0770	H	793	314527 3HOLLAND 115 314536 3SUUFFOLK 115 1
314539	314539	115.0	345	360	1.0784	1.0251	0.9300	1.0700	0.9739	1.0764	HR	793	314527 3HOLLAND 115 314536 3SUUFFOLK 115 1
314541	314541	115.0	345	360	1.0739	1.0269	0.9300	1.0700	0.9755	1.0782	H	793	314527 3HOLLAND 115 314536 3SUUFFOLK 115 1
314824	314824	115.0	345	360	1.0792	1.0256	0.9300	1.0700	0.9745	1.0771	HR	793	314527 3HOLLAND 115 314536 3SUUFFOLK 115 1
314826	314826	115.0	345	360	1.0743	1.0274	0.9300	1.0700	0.9760	1.0788	H	793	314527 3HOLLAND 115 314536 3SUUFFOLK 115 1
314827	314827	115.0	345	360	1.0743	1.0274	0.9300	1.0700	0.9760	1.0788	H	793	314527 3HOLLAND 115 314536 3SUUFFOLK 115 1
314524	314524	115.0	345	360	1.0817	1.0256	0.9300	1.0700	0.9744	1.0769	HR	794	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314526	314526	115.0	345	360	1.0711	1.0235	0.9300	1.0700	0.9724	1.0724	H	794	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314534	314534	115.0	345	360	1.0777	1.0257	0.9300	1.0700	0.9745	1.0770	HR	794	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314539	314539	115.0	345	360	1.0853	1.0251	0.9300	1.0700	0.9739	1.0764	HR	794	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314541	314541	115.0	345	360	1.0800	1.0269	0.9300	1.0700	0.9755	1.0782	HR	794	314527 3HOLLAND 115 314539 3UNCAMP 115 1
314824	314824	115.0	345	360	1.0860	1.0258	0.9300	1.0700	0.9745	1.0771	HR	794	314527 3HOLLAND 115 314539 3UNCAMP 115 1

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 12:09 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSGLS11) REV. 04/02/2012
 2013 LF WPREPCT GEN RET CSC NO SURRY230KV ALT C OPEN13458

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	Lowlimi t	Upplimi t	Voltdro p	Voltrise e	Viol	Ncon	Contingency Description
314826	3WATKI 1	115.0	345	360	1.0806	1.0214	0.9300	1.0700	0.9760	1.0788	HR	794	314527 3HOLLAND
314827	3WATKI 2	115.0	345	360	1.0806	1.0214	0.9300	1.0700	0.9760	1.0788	HR	794	314527 3HOLLAND
315115	1SIAMPT1	13.8	345	360	1.0493	0.9953	0.9300	1.0700	0.9455	1.0451	R	794	314527 3HOLLAND
314826	3WATKI 1	115.0	345	360	1.0702	1.0214	0.9300	1.0700	0.9760	1.0788	H	799	314534 38 HAMPT
314827	3WATKI 2	115.0	345	360	1.0702	1.0214	0.9300	1.0700	0.9760	1.0788	H	799	314534 38 HAMPT
314516	3BRUNS 1	115.0	345	358	1.0798	1.0086	0.9300	1.0700	0.9581	1.0590	HR	853	314562 3CLUBHOUSE
314565	3CLUBHS71	115.0	345	362	1.0299	1.0012	0.9300	1.0700	0.9511	1.0512	HR	853	314562 3CLUBHOUSE
314675	3BROUNAX	115.0	345	358	1.0690	1.0065	0.9300	1.0700	0.9562	1.0569	R	853	314562 3CLUBHOUSE
314676	3BRUNSWK	115.0	345	358	1.0742	1.0081	0.9300	1.0700	0.9577	1.0585	HR	853	314562 3CLUBHOUSE
314693	3FMAN D	115.0	345	358	1.0941	1.0037	0.9300	1.0700	0.9536	1.0539	HR	853	314562 3CLUBHOUSE
314704	3LAURENC	115.0	345	358	1.0845	1.0066	0.9300	1.0700	0.9563	1.0569	HR	853	314562 3CLUBHOUSE
314721	3SO HILL	115.0	345	358	1.0573	1.0049	0.9300	1.0700	0.9546	1.0551	R	853	314562 3CLUBHOUSE
314782	2BRUNSWC	69.0	345	358	1.1013	1.0283	0.9300	1.0700	0.9769	1.0797	R	853	314562 3CLUBHOUSE
314785	2DANUTRN	69.0	345	358	1.0493	0.9759	0.9300	1.0700	0.9271	1.0246	R	853	314562 3CLUBHOUSE
314786	2GRASBURG	69.0	345	358	1.0867	1.0123	0.9300	1.0700	0.9617	1.0629	HR	853	314562 3CLUBHOUSE
314787	2BRUNSW2	69.0	345	358	1.0728	1.0009	0.9300	1.0700	0.9509	1.0510	HR	853	314562 3CLUBHOUSE
314850	3CLUBHS 1	115.0	345	362	1.2049	1.0017	0.9300	1.0700	0.9516	1.0518	HR	853	314562 3CLUBHOUSE
314872	2BRUNSWIC	69.0	345	358	1.0604	0.9878	0.9300	1.0700	0.9384	1.0372	R	853	314562 3CLUBHOUSE
314641	3KITTY H	115.0	345	361	1.0761	1.0432	0.9300	1.0700	0.9911	1.0954	H	938	314635 3COLANGTFF
314646	1KITTY 4	34.5	345	361	1.0761	1.0432	0.9300	1.0700	0.9911	1.0954	H	938	314635 3COLANGTFF
314650	1KITTY 5	34.5	345	361	1.0770	1.0441	0.9300	1.0700	0.9919	1.0963	H	938	314635 3COLANGTFF
315146	1KITTYHKA	13.8	345	361	1.0761	1.0432	0.9300	1.0700	0.9911	1.0954	H	938	314635 3COLANGTFF
315147	1KITTYHKB	13.8	345	361	1.0770	1.0442	0.9300	1.0700	0.9920	1.0964	H	938	314635 3COLANGTFF
B51105	KITT 3W4	1.0	345	361	1.0761	1.0432	0.9300	1.0700	0.9911	1.0954	H	938	314635 3COLANGTFF
B51106	KITT 3W5	1.0	345	361	1.0770	1.0442	0.9300	1.0700	0.9920	1.0964	H	938	314635 3COLANGTFF
314635	3COLANGTFF	115.0	345	361	1.0769	1.0284	0.9300	1.0700	0.9770	1.0799	H	939	314635 3COLANGTFF
314636	3COLANG2	115.0	345	361	1.0769	1.0285	0.9300	1.0700	0.9770	1.0799	H	939	314635 3COLANGTFF
314641	3KITTY H	115.0	345	361	1.0767	1.0432	0.9300	1.0700	0.9911	1.0954	H	939	314635 3COLANGTFF
314646	1KITTY 4	34.5	345	361	1.0767	1.0432	0.9300	1.0700	0.9911	1.0954	H	939	314635 3COLANGTFF
314650	1KITTY 5	34.5	345	361	1.0776	1.0441	0.9300	1.0700	0.9919	1.0963	H	939	314635 3COLANGTFF
314829	3COLIN 1	115.0	345	361	1.0769	1.0285	0.9300	1.0700	0.9770	1.0799	H	939	314635 3COLANGTFF
315146	1KITTYHKA	13.8	345	361	1.0767	1.0432	0.9300	1.0700	0.9911	1.0954	H	939	314635 3COLANGTFF
315147	1KITTYHKB	13.8	345	361	1.0776	1.0442	0.9300	1.0700	0.9920	1.0964	H	939	314635 3COLANGTFF
B51105	KITT 3W4	1.0	345	361	1.0767	1.0432	0.9300	1.0700	0.9911	1.0954	H	939	314635 3COLANGTFF
B51106	KITT 3W5	1.0	345	361	1.0776	1.0442	0.9300	1.0700	0.9920	1.0964	H	939	314635 3COLANGTFF
314348	2GRETN 3	69.0	345	358	1.0803	1.0167	0.9300	1.0700	0.9658	1.0675	HR	1046	314731 2GRETN
314732	2GRNA FB	69.0	345	358	1.0800	1.0164	0.9300	1.0700	0.9656	1.0673	HR	1046	314731 2GRETN
314737	2BR35757	69.0	345	358	1.0702	1.0201	0.9300	1.0700	0.9691	1.0711	H	1046	314731 2GRETN
314739	2MT A TP	69.0	345	358	1.0702	1.0201	0.9300	1.0700	0.9691	1.0711	H	1046	314731 2GRETN
314348	2GRETN 1	69.0	345	358	1.0742	1.0167	0.9300	1.0700	0.9658	1.0675	HR	1046	314731 2GRETN
314731	2GRETN	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0673	HR	1047	314731 2GRETN
314732	2GRNA FB	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0673	HR	1047	314731 2GRETN
314763	3KIDUSTO	115.0	345	363	0.9255	0.9931	0.9300	1.0700	0.9435	1.0428	LD	1060	314744 3BREM

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 12:34 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPRICT GEN RET CSC NO SURRY230KV ALT C OPENL3458

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 12:33 <BRV003.0>
 2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPRICT GEN RET CSC NO SURRY230KV ALT C OPENL3458
 Case.File X:\S2015\sum_2015(2013LF)_base_wpre_CSCNOSURRY230_alto_open3458.sav
 Subsys.File X:\S2015\advp.sub
 Monit.File X:\S2015\vapsys.mon
 Contin.File X:\S2015\sum2015_single.con
 Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 93.5 % of nominal rating

**	From bus	** **	To bus	** CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314391	6LIGH209	230	314415	6WALK209	230	LN	343.8	470.0	103.5	405	LN 2102
314757	3GORDNVL	115	314776	3SOMRSET	115	LN	139.5	239.0	99.6	226	LN 255
314212	6FRIVER	230	314222	6HANOVER	230	LN	611.8	797.0	98.9	395	LN 2090
314559	3CAROLNA	115	314581	3JACKSON	115	LN	76.1	118.0	98.7	327	LN 2012
314581	3JACKSON	115	314626	3WOODLND	115	LN	73.5	118.0	96.5	327	LN 2012
314461	3DEEPC46	115	314513	3YADKIN	115	LN	345.9	360.0	96.1	235	LN 262
314072	6PL VIEW	230	314925	8PL VIEW	500	TR	938.8	993.6	94.5	504	TX-1 8BRMBL

PSS(r)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 12:34 < UDF000.0 >
 2013 LF WPREPCT GEN RET CSC NO SURRY230KV ALT C OPENL3458
 2013 LF WPREPCT GEN RET CSC NO SURRY230KV ALT C OPENL3458

AC Bus Voltage Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 12:34 <VOW003.0>

2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPCT GEN RET CSC NO SURRY230KV ALT C OPENL3458
 Case.File X:\S2015\sum_2015(2013LF)_base_wpre_CSCNOSURRY230_alto_open3458.sav
 Subsys.File X:\S2015\vdvp.sub
 Monit.File X:\S2015\vdapsys.mon
 Contin.File X:\S2015\sum2015_single.con
 Exclud.File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Upplimi t	VoltBro P	VoltRis e	Viol	Ncon	Contingency Description
315218	ACUNINGC	18.0	345	366	1.0725	1.0725	0.9300	1.0700	1.0189	1.1261	H	**	Base Case **
314641	AKITTY H	115.0	345	361	1.0760	1.0432	0.9300	1.0700	0.9911	1.0954	H	45	LN 52
314646	AKITTY 4	34.5	345	361	1.0760	1.0432	0.9300	1.0700	0.9911	1.0954	H	45	LN 52
314650	AKITTY 5	34.5	345	361	1.0769	1.0441	0.9300	1.0700	0.9919	1.0963	H	45	LN 52
315146	AKITYHKA	13.8	345	361	1.0760	1.0432	0.9300	1.0700	0.9911	1.0954	H	45	LN 52
315147	AKITYHKB	13.8	345	361	1.0770	1.0442	0.9300	1.0700	0.9920	1.0964	H	45	LN 52
B51105	KITT 3W4	1.0	345	361	1.0760	1.0432	0.9300	1.0700	0.9911	1.0954	H	45	LN 52
B51106	KITT 3W5	1.0	345	361	1.0770	1.0442	0.9300	1.0700	0.9920	1.0964	H	45	LN 52
314524	3FRANKLN	115.0	345	360	1.0818	1.0256	0.9300	1.0700	0.9744	1.0769	HR	61	LN 68
314526	3HANDSCM	115.0	345	360	1.0711	1.0235	0.9300	1.0700	0.9724	1.0747	H	61	LN 68
314534	3S HAMPT	115.0	345	360	1.0778	1.0257	0.9300	1.0700	0.9745	1.0770	HR	61	LN 68
314539	3UNCAMP	115.0	345	360	1.0854	1.0251	0.9300	1.0700	0.9739	1.0764	HR	61	LN 68
314541	3WATKINS	115.0	345	360	1.0801	1.0269	0.9300	1.0700	0.9755	1.0782	HR	61	LN 68
314824	3UNCAM 1	115.0	345	360	1.0861	1.0258	0.9300	1.0700	0.9745	1.0771	HR	61	LN 68
314826	3WATKI 1	115.0	345	360	1.0806	1.0274	0.9300	1.0700	0.9760	1.0788	HR	61	LN 68
314827	3WATKI 2	115.0	345	360	1.0806	1.0274	0.9300	1.0700	0.9760	1.0788	HR	61	LN 68
315115	1SHAMPT1	13.8	345	360	1.0494	0.9953	0.9300	1.0700	0.9455	1.0451	R	61	LN 68
314348	2GRETN 1	69.0	345	358	1.0740	1.0167	0.9300	1.0700	0.9658	1.0675	HR	153	LN 173
314731	2GRETN A	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0673	HR	153	LN 173
314732	2GRNA FB	69.0	345	358	1.0738	1.0164	0.9300	1.0700	0.9656	1.0673	HR	153	LN 173
314874	21LN 174	69.0	345	351	1.0795	1.0206	0.9300	1.0700	0.9696	1.0717	HR	154	LN 174
314878	21LN 178	69.0	345	351	1.0795	1.0206	0.9300	1.0700	0.9696	1.0717	HR	156	LN 178
314879	21LN 179	69.0	345	351	1.0795	1.0206	0.9300	1.0700	0.9696	1.0717	HR	157	LN 179
314880	21LN 180	69.0	345	351	1.0798	1.0206	0.9300	1.0700	0.9696	1.0717	HR	158	LN 180
314122	35ONEGO	115.0	345	353	0.9502	1.0033	0.9300	1.0700	0.9532	1.0535	D	159	LN 181
314051	310WA197	115.0	345	353	0.9334	1.0031	0.9300	1.0700	0.9530	1.0533	D	172	LN 197

PSS(nr)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, FEB 19 2013 12:34 < UDF000.0 >
 2015 SUMMER BASE CASE (LTSG15S11) REV. 04/02/2012
 2013 LF WPREPCT GEN RET CSC NO SURRY230KV ALT C OPENL3458

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	UppLim t	VoltDro P	VoltRis e	Viol	Ncon	Contingency Description
314148	3MICK197	115.0	345	353	0.9665	1.0027	0.9300	1.0700	0.9526	1.0529	LD	172 LN 197	
314158	3GOW197	115.0	345	353	0.9465	1.0026	0.9300	1.0700	0.9525	1.0528	D	172 LN 197	
314402	6PENINSL	230.0	345	356	1.0765	1.0462	0.9300	1.0700	0.9939	1.0985	H	261 LN 288	
314014	3CANNOMB	115.0	345	353	0.8904	1.0038	0.9300	1.0700	0.9536	1.0540	LD	326 LN 2011	
314051	3LOMA197	115.0	345	353	0.8906	1.0031	0.9300	1.0700	0.9530	1.0533	LD	326 LN 2011	
314148	3MICK197	115.0	345	353	0.8906	1.0027	0.9300	1.0700	0.9526	1.0529	LD	326 LN 2011	
314155	3CANBR T	115.0	345	353	0.8905	1.0032	0.9300	1.0700	0.9531	1.0534	LD	326 LN 2011	
314158	3GOW197	115.0	345	353	0.8909	1.0026	0.9300	1.0700	0.9525	1.0528	LD	326 LN 2011	
315001	1COMF A	13.8	345	351	1.0327	0.9778	0.9300	1.0700	0.9289	1.0267	R	328 LN 2013	
315002	1COMF B	13.8	345	351	1.0327	0.9778	0.9300	1.0700	0.9289	1.0267	R	328 LN 2013	
315083	1SPRUNCA	13.8	345	357	1.0152	0.9658	0.9300	1.0700	0.9175	1.0141	R	367 LN 2055	
315085	1SPRUNCC	13.8	345	357	1.0167	0.9676	0.9300	1.0700	0.9192	1.0160	R	367 LN 2055	
315008	1POSSM6A	18.0	345	353	0.9251	0.9385	0.9300	1.0700	0.8916	0.9854	L	395 LN 2090	
315009	1POSSM6B	18.0	345	353	0.9251	0.9385	0.9300	1.0700	0.8916	0.9854	L	395 LN 2090	
315008	1POSSM6A	18.0	345	353	0.9245	0.9385	0.9300	1.0700	0.8916	0.9854	L	407 LN 2104	
315009	1POSSM6B	18.0	345	353	0.9245	0.9385	0.9300	1.0700	0.8916	0.9854	L	407 LN 2104	
314180	6HAYES	230.0	345	354	0.8916	1.0406	0.9300	1.0700	0.9886	1.0926	LD	423 LN 2122	
314118	3MINNIEV	115.0	345	353	0.9468	0.9988	0.9300	1.0700	0.9489	1.0487	D	470 TX-1 60X	
314167	3OX	115.0	345	352	0.9469	1.0063	0.9300	1.0700	0.9560	1.0566	D	470 TX-1 60X	
315008	1POSSM6A	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9854	L	475 TX-1 6POSSUM	
315009	1POSSM6B	18.0	345	353	0.9274	0.9385	0.9300	1.0700	0.8916	0.9854	L	475 TX-1 6POSSUM	
315009	1POSSM6B	18.0	345	353	0.9262	0.9385	0.9300	1.0700	0.8916	0.9854	L	481 TX-1 6POSSU4	
315008	1POSSM6A	18.0	345	353	0.9262	0.9385	0.9300	1.0700	0.8916	0.9854	L	482 TX-1 6POSSU5	
315008	1POSSM6A	18.0	345	353	0.9254	0.9385	0.9300	1.0700	0.8916	0.9854	L	483 TX-1 6POSSU6	
315009	1POSSM6B	18.0	345	353	0.9254	0.9385	0.9300	1.0700	0.8916	0.9854	L	483 TX-1 6POSSU6	
314122	3SOWEGO	115.0	345	353	0.9508	1.0033	0.9300	1.0700	0.9532	1.0535	D	492 TX-1 6BRISTE	
314156	3BRISTER	115.0	345	353	0.9508	1.0062	0.9300	1.0700	0.9559	1.0565	D	492 TX-1 6BRISTE	
314049	3LOMA172	115.0	345	353	0.9313	0.9848	0.9300	1.0700	0.9355	1.0340	D	495 TX-1 6LIBERT	
314123	3WELLGTH	115.0	345	353	0.9295	0.9873	0.9300	1.0700	0.9379	1.0367	LD	495 TX-1 6LIBERT	
314141	3LIBERTY	115.0	345	353	0.9295	0.9883	0.9300	1.0700	0.9389	1.0378	LD	495 TX-1 6LIBERT	
314147	3MICK172	115.0	345	353	0.9311	0.9848	0.9300	1.0700	0.9356	1.0341	D	495 TX-1 6LIBERT	
314157	3GOW172	115.0	345	353	0.9306	0.9858	0.9300	1.0700	0.9365	1.0351	D	495 TX-1 6LIBERT	

CATEGORY B

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- WED, FEB 20 2013 8:32 <BRV003.0>
2021 SUMMER BASE CASE (ERAG/MMWG22S11) REV. 04/02/2012
2013 LF WPRE

Case.File X:\S2021\sum_2021(2013LF)_wpre.sav
Subsys.File X:\S2015\drv_sub
Monit.File X:\S2015\wpsys.mon
Contin.File X:\S2015\wpsys.con
Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 93.5 % of nominal rating

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	99.7	71.3	89.0	112.1	614	314388 6LANEXA 230 314391 6LIGH209 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	98.2	69.7	89.0	110.3	614	314388 6LANEXA 230 314391 6LIGH209 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	96.4	71.3	89.0	108.4	376	314214 6CHCKRAHM 230 314390 6LIGH285 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	96.2	71.3	89.0	108.1	613	314387 3LANEXA 115 314396 3NNEWS58 115 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	96.2	71.3	89.0	108.1	624	314396 3NNEWS58 115 314411 3TOANO58 115 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	96.0	71.3	89.0	107.9	30	313818 6BENCHRCH 230 314522 6CHCKTUK 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	94.9	71.3	89.0	106.7	618	314391 6LIGH209 230 314415 6WALR209 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	94.9	69.7	89.0	106.6	376	314214 6CHCKRAHM 230 314390 6LIGH285 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	94.6	69.7	89.0	106.3	613	314387 3LANEXA 115 314396 3NNEWS58 115 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	94.6	69.7	89.0	106.3	624	314396 3NNEWS58 115 314411 3TOANO58 115 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	94.4	69.7	89.0	106.0	30	313818 6BENCHRCH 230 314522 6CHCKTUK 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	94.1	71.3	89.0	105.8	29	313818 6BENCHRCH 230 314398 6NP NEWS 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	93.3	69.7	89.0	104.9	618	314391 6LIGH209 230 314415 6WALR209 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	92.7	71.3	89.0	104.1	815	314538 6SURY 230 314540 6POOLSVL 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	92.5	69.7	89.0	103.9	29	313818 6BENCHRCH 230 314398 6NP NEWS 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	91.8	71.3	89.0	103.2	647	314421 6WINCHST 230 314540 6POOLSVL 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	91.1	69.7	89.0	102.4	815	314538 6SURY 230 314540 6POOLSVL 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	90.7	71.3	89.0	101.9	617	314390 6LIGH285 230 314413 6WALR285 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	90.3	69.7	89.0	101.4	647	314421 6WINCHST 230 314540 6POOLSVL 230 1
314421	6WINCHST	230	314540 6POOLSVL	230	LN	LN	562.4	400.3	559.0	100.6	30	313818 6BENCHRCH 230 314522 6CHCKTUK 230 1
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	89.1	69.7	89.0	100.1	617	314390 6LIGH285 230 314413 6WALR285 230 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	89.0	71.3	89.0	100.0	608	314384 3KINGS M 115 314411 3TOANO58 115 1
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	88.1	71.3	89.0	99.0	519	314296 6PENNNMAN 230 314415 6WALR209 230 1
314421	6WINCHST	230	314540 6POOLSVL	230	LN	LN	549.6	400.3	559.0	98.3	29	313818 6BENCHRCH 230 314398 6NP NEWS 230 1
313818	6BENCHRCH	230	314522 6CHCKTUK	230	LN	LN	574.3	391.3	584.0	98.3	815	314538 6SURY 230 314540 6POOLSVL 230 1

**	From bus	**	To bus	**	CRT	Type	ContMVA	BaseFlo W	Rating	Loading %	Neon	Contingency Description
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	87.4	69.7	89.0	98.2	608 314384 3KINGS M	115 314411 3TOANO58
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	86.7	71.3	89.0	97.4	518 314296 6PENNNIMAN	230 314386 6KINGS M
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	86.5	69.7	89.0	97.1	519 314296 6PENNNIMAN	230 314415 6WALR209
313818	6BENCHROH	230	314522 6CHCKTUK	230	LN	LN	567.3	391.3	584.0	97.1	647 314421 6WINCHST	230 314540 6POOLSVL
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	86.3	71.3	89.0	96.9	625 314398 6NP NEWS	230 314399 6PEMBROK
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	86.3	71.3	89.0	96.9	627 314399 6PEMBROK	230 314407 6SHELBNK
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	85.9	71.3	89.0	96.5	599 314376 6DENBIGH	230 314413 6WALR285
314756	3DOUBLDY	115	314776 3SOMRSET	115	LN	LN	252.2	141.3	262.0	96.3	1097 314766 6LOUISA	230 314777 6S ANNA
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	85.0	69.7	89.0	95.6	518 314296 6PENNNIMAN	230 314386 6KINGS M
314378	3FTEUS34	115	314381 3GRAT34	115	LN	LN	85.0	56.9	89.0	95.5	614 314388 6LANEXA	230 314391 6LIGH209
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	85.0	71.3	89.0	95.5	645 314418 6WHEALTN	230 314421 6WINCHST
314029	6DUMPRES	230	314074 6POSSUM	230	LN	LN	670.7	540.2	705.0	95.1	160 314057 6LAKED	230 314074 6POSSUM
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	84.7	69.7	89.0	95.1	625 314398 6NP NEWS	230 314399 6PEMBROK
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	84.7	69.7	89.0	95.1	627 314399 6PEMBROK	230 314407 6SHELBNK
314756	3DOUBLDY	115	314769 3ORANGE	115	LN	LN	249.0	138.2	262.0	95.1	1097 314766 6LOUISA	230 314777 6S ANNA
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	84.5	71.3	89.0	95.0	610 314386 6KINGS M	230 314423 6YORKTWN
314123	3WELLGTON	115	314141 3LIBERTY	115	LN	LN	370.7	84.2	180.0	94.8	75 314014 3CANNONB	115 314016 6CANNONB
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	84.3	69.7	89.0	94.7	599 314376 6DENBIGH	230 314413 6WALR285
314449	6CHESAPK	230	314514 6YADKIN	230	LN	LN	681.3	545.1	722.0	94.4	703 314464 6DOZIER	230 314465 6ELIZ R
314449	6CHESAPK	230	314514 6YADKIN	230	LN	LN	681.3	545.1	722.0	94.4	704 314464 6DOZIER	230 314474 6GRENWCH
314756	3DOUBLDY	115	314776 3SOMRSET	115	LN	LN	246.5	141.3	262.0	94.1	406 314232 6NO ANNA	230 314766 6LOUISA
314391	6LIGH209	230	314415 6WALR209	230	LN	LN	441.2	282.5	470.0	93.9	376 314214 6CHCKRAH	230 314390 6LIGH285
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	83.4	69.7	89.0	93.7	645 314418 6WHEALTN	230 314421 6WINCHST
313818	6BENCHROH	230	314398 6NP NEWS	230	LN	LN	547.1	364.5	584.0	93.7	815 314538 6SUNNY	230 314540 6POOLSVL

AC Bus Voltage Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- WED, FEB 20 2013 8:33 <V0V0003.0>
2021 SUMMER BASE CASE (ERAG/MMWG22511) REV. 04/02/2012
2013 LF WPRE
Case File X:\S2021\sum 2021(2013LF)_wpre.sav
Subsys File X:\S2015\vdvp.sub
Monit File X:\S2015\vapsys.mon
Contn File X:\S2015\vapsys.con
Exclud File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	Upplimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.9227	0.9905	0.9300	1.0700	0.9410	1.0401	LD	16	313810 6DAHLGREN 230 314131 GARNOLDS 230 1
314139	6GARGROV	230.0	345	354	0.9201	0.9897	0.9300	1.0700	0.9403	1.0392	D	16	313810 6DAHLGREN 230 314131 GARNOLDS 230 1
314183	6SANDERS	230.0	345	354	0.9369	0.9875	0.9300	1.0700	0.9381	1.0369	D	16	313810 6DAHLGREN 230 314131 GARNOLDS 230 1
314190	6WESTWOR	230.0	345	354	0.9344	0.9887	0.9300	1.0700	0.9392	1.0381	D	16	313810 6DAHLGREN 230 314131 GARNOLDS 230 1
314398	6NP NEWS	230.0	345	356	0.9491	1.0072	0.9300	1.0700	0.9569	1.0376	D	29	313818 6BENCHRCH 230 314398 6NP NEWS 230 1
314399	6PEMBROK	230.0	345	356	0.9475	1.0072	0.9300	1.0700	0.9531	1.0353	D	29	313818 6BENCHRCH 230 314398 6NP NEWS 230 1
314407	6SHELBNK	230.0	345	356	0.9459	0.9991	0.9300	1.0700	0.9492	1.0491	D	29	313818 6BENCHRCH 230 314398 6NP NEWS 230 1
314442	6NP NE.1	230.0	345	356	0.9510	1.0093	0.9300	1.0700	0.9588	1.0597	D	29	313818 6BENCHRCH 230 314398 6NP NEWS 230 1
313818	6BENCHRCH	230.0	345	360	0.9379	1.0197	0.9300	1.0700	0.9687	1.0707	D	30	313818 6BENCHRCH 230 314522 6CHCKTUK 230 1
314398	6NP NEWS	230.0	345	356	0.9397	1.0072	0.9300	1.0700	0.9569	1.0376	D	30	313818 6BENCHRCH 230 314522 6CHCKTUK 230 1
314399	6PEMBROK	230.0	345	356	0.9385	1.0033	0.9300	1.0700	0.9531	1.0353	D	30	313818 6BENCHRCH 230 314522 6CHCKTUK 230 1
314402	6PENINSL	230.0	345	356	0.9434	1.0006	0.9300	1.0700	0.9505	1.0506	D	30	313818 6BENCHRCH 230 314522 6CHCKTUK 230 1
314409	6TABB	230.0	345	356	0.9495	1.0020	0.9300	1.0700	0.9519	1.0521	D	30	313818 6BENCHRCH 230 314522 6CHCKTUK 230 1
314442	6NP NE.1	230.0	345	356	0.9416	1.0093	0.9300	1.0700	0.9476	1.0474	LD	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314014	3CANNONB	115.0	345	353	0.8885	0.9975	0.9300	1.0700	0.9476	1.0474	LD	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314025	1 TX500	13.2	345	353	0.9095	0.9976	0.9300	1.0700	0.9478	1.0475	LD	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314049	3LOWA172	115.0	345	353	0.9166	0.9655	0.9300	1.0700	0.9172	1.0137	LD	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314051	3LOWA197	115.0	345	353	0.8489	0.9966	0.9300	1.0700	0.9468	1.0464	LD	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314123	3WELLGYN	115.0	345	353	0.9289	0.9679	0.9300	1.0700	0.9195	1.0163	L	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314147	3MICR172	115.0	345	353	0.9172	0.9655	0.9300	1.0700	0.9172	1.0138	LD	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314148	3MICR197	115.0	345	353	0.8488	0.9961	0.9300	1.0700	0.9463	1.0459	LD	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314155	3CANBR T	115.0	345	353	0.8487	0.9968	0.9300	1.0700	0.9469	1.0466	LD	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314157	3GOW172	115.0	345	353	0.9217	0.9665	0.9300	1.0700	0.9182	1.0148	L	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314158	3GOW197	115.0	345	353	0.8491	0.9959	0.9300	1.0700	0.9461	1.0457	LD	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314160	1 TX503	13.2	345	353	0.9095	0.9977	0.9300	1.0700	0.9478	1.0475	LD	75	314014 3CANNONB 115 314016 6CANNONB 230 1
314025	1 TX500	13.2	345	353	0.9372	0.9976	0.9300	1.0700	0.9478	1.0475	D	76	314014 3CANNONB 115 314155 3CANBR T 115 1
314049	3LOWA172	115.0	345	353	0.9292	0.9655	0.9300	1.0700	0.9172	1.0137	L	76	314014 3CANNONB 115 314155 3CANBR T 115 1

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	Upplimi t	VolTDro p	VolTRis e	Viol	Noon	Contingency Description
314051	3LOMAL197	115.0	345	353	0.8799	0.9966	0.9300	1.0700	0.9468	1.0464	LD	76	314014 3CANNONB
314147	3MICR172	115.0	345	353	0.9296	0.9655	0.9300	1.0700	0.9172	1.0138	L	76	314014 3CANNONB
314148	3MICR197	115.0	345	353	0.8797	0.9961	0.9300	1.0700	0.9463	1.0459	LD	76	314014 3CANNONB
314155	3CANBR T	115.0	345	353	0.8798	0.9968	0.9300	1.0700	0.9469	1.0466	LD	76	314014 3CANNONB
314158	3GOWM197	115.0	345	353	0.8799	0.9959	0.9300	1.0700	0.9461	1.0457	LD	76	314014 3CANNONB
314160	1TX503	13.2	345	353	0.9372	0.9977	0.9300	1.0700	0.9478	1.0475	D	76	314014 3CANNONB
314025	1TX500	13.2	345	353	0.8968	0.9976	0.9300	1.0700	0.9478	1.0475	LD	102	314025 1TX500
314160	1TX503	13.2	345	353	0.8817	0.9977	0.9300	1.0700	0.9478	1.0475	HR	103	314025 1TX500
314051	3LOMAL197	115.0	345	353	0.9316	0.9966	0.9300	1.0700	0.9468	1.0464	D	152	314051 3LOMAL197
314114	3MINNDL	115.0	345	353	0.9337	0.9999	0.9300	1.0700	0.9404	1.0394	D	186	314068 60X
314118	3MINNIEV	115.0	345	353	0.9321	0.9925	0.9300	1.0700	0.9428	1.0421	D	186	314068 60X
314167	3OX	115.0	345	352	0.9322	1.0019	0.9300	1.0700	0.9518	1.0520	D	186	314068 60X
314114	3MINNDL	115.0	345	353	0.9321	0.9899	0.9300	1.0700	0.9404	1.0394	D	261	314118 3MINNIEV
314118	3MINNIEV	115.0	345	353	0.9304	0.9925	0.9300	1.0700	0.9428	1.0421	D	261	314118 3MINNIEV
314122	3SOWEGO	115.0	345	353	0.9316	1.0002	0.9300	1.0700	0.9502	1.0502	D	265	314122 3SOWEGO
314049	3LOMAL172	115.0	345	353	0.8960	0.9655	0.9300	1.0700	0.9172	1.0137	LD	266	314123 3WELLGTN
314123	3WELLGTN	115.0	345	353	0.8957	0.9679	0.9300	1.0700	0.9195	1.0163	LD	266	314123 3WELLGTN
314147	3MICR172	115.0	345	353	0.8937	0.9655	0.9300	1.0700	0.9172	1.0138	LD	266	314123 3WELLGTN
314157	3GOWM172	115.0	345	353	0.8950	0.9665	0.9300	1.0700	0.9182	1.0148	LD	266	314123 3WELLGTN
314122	3SOWEGO	115.0	345	353	0.9322	1.0041	0.9300	1.0700	0.9502	1.0502	D	269	314130 6BRISTER
314156	3BRISTER	115.0	345	353	0.9322	1.0041	0.9300	1.0700	0.9539	1.0543	D	269	314130 6BRISTER
313810	6BAILGTEN	230.0	345	354	0.9161	0.9905	0.9300	1.0700	0.9410	1.0401	LD	271	314131 6ARNOLDS
314131	6ARNOLDS	230.0	345	354	0.9156	0.9959	0.9300	1.0700	0.9461	1.0457	LD	271	314131 6ARNOLDS
314139	6GOWROV	230.0	345	354	0.9238	0.9897	0.9300	1.0700	0.9403	1.0392	LD	271	314131 6ARNOLDS
314182	6NORNECK	230.0	345	354	0.9337	0.9873	0.9300	1.0700	0.9379	1.0366	D	271	314131 6ARNOLDS
314183	6SANDERS	230.0	345	354	0.9314	0.9875	0.9300	1.0700	0.9381	1.0369	D	271	314131 6ARNOLDS
314190	6WESTMOR	230.0	345	354	0.9285	0.9887	0.9300	1.0700	0.9392	1.0381	LD	271	314131 6ARNOLDS
313810	6BAILGTEN	230.0	345	354	0.9105	0.9905	0.9300	1.0700	0.9410	1.0401	LD	273	314132 6BIRCHWD
314131	6ARNOLDS	230.0	345	354	0.9096	0.9959	0.9300	1.0700	0.9461	1.0457	LD	273	314132 6BIRCHWD
314139	6GOWROV	230.0	345	354	0.9189	0.9897	0.9300	1.0700	0.9403	1.0392	LD	273	314132 6BIRCHWD
314172	6OUNNSVL	230.0	345	354	0.9404	0.9904	0.9300	1.0700	0.9409	1.0400	D	273	314132 6BIRCHWD
314175	6COMORN	230.0	345	354	0.9096	0.9967	0.9300	1.0700	0.9469	1.0465	LD	273	314132 6BIRCHWD
314182	6NORNECK	230.0	345	354	0.9298	0.9873	0.9300	1.0700	0.9379	1.0366	LD	273	314132 6BIRCHWD
314183	6SANDERS	230.0	345	354	0.9272	0.9875	0.9300	1.0700	0.9381	1.0369	LD	273	314132 6BIRCHWD
314190	6WESTMOR	230.0	345	354	0.9240	0.9887	0.9300	1.0700	0.9392	1.0381	LD	273	314132 6BIRCHWD
314049	3LOMAL172	115.0	345	353	0.8961	0.9655	0.9300	1.0700	0.9172	1.0137	LD	275	314133 6LIBERTY
314123	3WELLGTN	115.0	345	353	0.8938	0.9679	0.9300	1.0700	0.9195	1.0163	LD	275	314133 6LIBERTY
314141	3LIBERTY	115.0	345	353	0.8938	0.9691	0.9300	1.0700	0.9206	1.0175	LD	275	314133 6LIBERTY
314147	3MICR172	115.0	345	353	0.8959	0.9655	0.9300	1.0700	0.9172	1.0138	LD	275	314133 6LIBERTY
314157	3GOWM172	115.0	345	353	0.8952	0.9665	0.9300	1.0700	0.9182	1.0148	LD	275	314133 6LIBERTY
314775	3NI RVER	115.0	345	363	0.9420	1.0025	0.9300	1.0700	0.9524	1.0527	D	281	314135 3CANBR
314025	1TX500	13.2	345	353	0.9451	0.9976	0.9300	1.0700	0.9478	1.0475	D	301	314148 3MICR197
314148	3MICR197	115.0	345	353	0.8831	0.9961	0.9300	1.0700	0.9463	1.0459	LD	301	314148 3MICR197
314158	3GOWM197	115.0	345	353	0.8933	0.9959	0.9300	1.0700	0.9461	1.0457	LD	301	314148 3MICR197
314155	3CANBR T	115.0	345	353	0.8933	0.9959	0.9300	1.0700	0.9461	1.0457	LD	301	314148 3MICR197
314025	1TX500	13.2	345	353	0.9451	0.9976	0.9300	1.0700	0.9478	1.0475	D	301	314148 3MICR197
314155	3CANBR T	115.0	345	353	0.8831	0.9961	0.9300	1.0700	0.9463	1.0459	LD	301	314148 3MICR197
314158	3GOWM197	115.0	345	353	0.8933	0.9959	0.9300	1.0700	0.9461	1.0457	LD	301	314148 3MICR197
314155	3CANBR T	115.0	345	353	0.8933	0.9959	0.9300	1.0700	0.9461	1.0457	LD	301	314148 3MICR197

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	Lowlimi t	Upplimi t	VoltDro p	VoltRis e	Viol	Noon	Contingency Description
314160	1 TXS03	345	345	353	0.9451	0.9977	0.9300	1.0700	0.9478	1.0475	D	301 314148 3MICR197	115 314155 3CANBR T
314180	6BAYES	230.0	345	354	0.9016	1.0083	0.9300	1.0700	0.9579	1.0587	LD	328 314180 6BAYES	230 314423 6YORKTN
314207	60AK GRE	230.0	345	363	0.9066	0.9981	0.9300	1.0700	0.9482	1.0480	LD	352 314207 60AK GRE	230 314232 6NO ANNA
314259	3CAR56 1	115.0	345	362	1.1414	1.0205	0.9300	1.0700	0.9695	1.0715	HR	436 314259 3CAR56 1	115 314559 3CAROLNA
314526	3HANS0N	115.0	345	360	1.0703	1.0207	0.9300	1.0700	0.9696	1.0717	H	436 314259 3CAR56 1	115 314559 3CAROLNA
314558	3BOYKINS	115.0	345	362	1.0754	1.0168	0.9300	1.0700	0.9660	1.0676	HR	436 314259 3CAR56 1	115 314559 3CAROLNA
314587	3WANGTSV	115.0	345	362	1.0986	1.0166	0.9300	1.0700	0.9657	1.0674	HR	436 314259 3CAR56 1	115 314559 3CAROLNA
314604	3SEABORD	115.0	345	362	1.1100	1.0167	0.9300	1.0700	0.9659	1.0675	HR	436 314259 3CAR56 1	115 314559 3CAROLNA
314835	3CAROL 1	115.0	345	362	1.1425	1.0215	0.9300	1.0700	0.9704	1.0726	HR	436 314259 3CAR56 1	115 314559 3CAROLNA
315085	1SPRUNCC	13.8	345	357	1.0500	0.9951	0.9300	1.0700	0.9453	1.0448	R	468 314275 6BELMEAD	230 314276 6BASIN
314328	6PLAZA	230.0	345	357	0.9430	0.9992	0.9300	1.0700	0.9492	1.0491	D	570 314328 6PLAZA	230 314338 6SOUTWEST
314680	2CHATHAM	69.0	345	358	0.9437	0.9939	0.9300	1.0700	0.9442	1.0436	D	589 314348 2GRETN 1	69.0 314732 2GRNA FB
314685	2CHTN TP	69.0	345	358	0.9444	0.9945	0.9300	1.0700	0.9448	1.0442	D	589 314348 2GRETN 1	69.0 314732 2GRNA FB
314727	2CLMNA DE	69.0	345	358	0.9409	0.9911	0.9300	1.0700	0.9416	1.0407	D	589 314348 2GRETN 1	69.0 314732 2GRNA FB
314728	2CLMNA TP	69.0	345	358	0.9417	0.9919	0.9300	1.0700	0.9423	1.0415	D	589 314348 2GRETN 1	69.0 314732 2GRNA FB
314736	2SEHKO DP	69.0	345	358	0.9442	0.9943	0.9300	1.0700	0.9446	1.0440	D	589 314348 2GRETN 1	69.0 314732 2GRNA FB
314766	6HARNOY	230.0	345	354	0.9244	1.0030	0.9300	1.0700	0.9529	1.0532	LD	598 314375 6CORRECTN	230 314388 6LANEXA
314189	6PAPERMI	230.0	345	354	0.9184	1.0010	0.9300	1.0700	0.9509	1.0510	LD	598 314375 6CORRECTN	230 314388 6LANEXA
314375	6CORRECTN	230.0	345	354	0.9180	1.0018	0.9300	1.0700	0.9517	1.0519	LD	598 314375 6CORRECTN	230 314388 6LANEXA
314396	3NEWS58	115.0	345	356	0.9241	0.9814	0.9300	1.0700	0.9323	1.0305	LD	613 314387 3LANEXA	115 314396 3NEWS58
314411	3TOANOS58	115.0	345	356	0.9241	0.9799	0.9300	1.0700	0.9309	1.0289	LD	613 314387 3LANEXA	115 314396 3NEWS58
314411	3TOANOS58	115.0	345	356	0.9241	0.9799	0.9300	1.0700	0.9309	1.0289	LD	624 314396 3NEWS58	115 314411 3TOANOS58
314399	6PEMBROK	230.0	345	356	0.9402	1.0033	0.9300	1.0700	0.9531	1.0535	D	625 314398 6NP NEWS	230 314399 6PEMBROK
314402	6PENINSL	230.0	345	356	0.9472	1.0006	0.9300	1.0700	0.9505	1.0506	D	625 314398 6NP NEWS	230 314399 6PEMBROK
314407	6SHELBNK	230.0	345	356	0.9402	0.9991	0.9300	1.0700	0.9492	1.0491	D	625 314398 6NP NEWS	230 314399 6PEMBROK
314399	6PEMBROK	230.0	345	356	1.0550	1.0033	0.9300	1.0700	0.9531	1.0535	R	627 314399 6PEMBROK	230 314407 6SHELBNK
314402	6PENINSL	230.0	345	356	0.9470	1.0006	0.9300	1.0700	0.9505	1.0506	D	627 314399 6PEMBROK	230 314407 6SHELBNK
314407	6SHELBNK	230.0	345	356	0.9399	0.9991	0.9300	1.0700	0.9492	1.0491	D	627 314399 6PEMBROK	230 314407 6SHELBNK
314524	3FRANKLN	115.0	345	360	1.0711	1.0219	0.9300	1.0700	0.9708	1.0710	H	797 314527 3HOLLAND	115 314536 3SUFFOLK
314527	3HOLLAND	115.0	345	360	1.0715	1.0094	0.9300	1.0700	0.9589	1.0599	HR	797 314527 3HOLLAND	115 314536 3SUFFOLK
314539	3UNCAMP	115.0	345	360	1.0739	1.0212	0.9300	1.0700	0.9701	1.0722	HR	797 314527 3HOLLAND	115 314536 3SUFFOLK
314824	3UNCAM 1	115.0	345	360	1.0746	1.0219	0.9300	1.0700	0.9708	1.0729	HR	797 314527 3HOLLAND	115 314536 3SUFFOLK
314826	3WATKI 1	115.0	345	360	1.0705	1.0239	0.9300	1.0700	0.9727	1.0751	H	797 314527 3HOLLAND	115 314536 3SUFFOLK
314827	3WATKI 2	115.0	345	360	1.0705	1.0239	0.9300	1.0700	0.9727	1.0751	H	797 314527 3HOLLAND	115 314536 3SUFFOLK
314524	3FRANKLN	115.0	345	360	1.0763	1.0219	0.9300	1.0700	0.9708	1.0730	HR	798 314527 3HOLLAND	115 314539 3UNCAMP
314534	3S HAMPT	115.0	345	360	1.0724	1.0224	0.9300	1.0700	0.9713	1.0735	H	798 314527 3HOLLAND	115 314539 3UNCAMP
314539	3UNCAMP	115.0	345	360	1.0800	1.0212	0.9300	1.0700	0.9701	1.0722	HR	798 314527 3HOLLAND	115 314539 3UNCAMP
314541	3WATKINS	115.0	345	360	1.0746	1.0234	0.9300	1.0700	0.9722	1.0746	HR	798 314527 3HOLLAND	115 314539 3UNCAMP
314826	3UNCAM 1	115.0	345	360	1.0808	1.0219	0.9300	1.0700	0.9708	1.0729	HR	798 314527 3HOLLAND	115 314539 3UNCAMP
314827	3WATKI 2	115.0	345	360	1.0752	1.0239	0.9300	1.0700	0.9727	1.0751	HR	798 314527 3HOLLAND	115 314539 3UNCAMP
315115	1SHAMPT1	13.8	345	360	1.0438	0.9918	0.9300	1.0700	0.9422	1.0414	R	798 314527 3HOLLAND	115 314539 3UNCAMP
314578	3HORNRTN	115.0	345	362	1.0716	1.0152	0.9300	1.0700	0.9645	1.0660	D	847 314559 3CAROLNA	115 314578 3HORNRTN
314516	3BRUNNS 1	115.0	345	358	1.0716	1.0075	0.9300	1.0700	0.9571	1.0579	HR	856 314562 3CLUBHSE	115 314565 3CLBHS71
314565	3CLBHS71	115.0	345	362	1.0946	1.0028	0.9300	1.0700	0.9526	1.0529	HR	856 314562 3CLUBHSE	115 314565 3CLBHS71
314675	3BRDNAX	115.0	345	358	1.0614	1.0050	0.9300	1.0700	0.9548	1.0553	R	856 314562 3CLUBHSE	115 314565 3CLBHS71

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	Upplimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314676	3BRUNSK	115.0	345	358	1.0711	1.0070	0.9300	1.0700	0.9567	1.0574	HR	856	314562 3CLUBHSE 115 314565 3CLHSH71 115 21
314693	3FRMAN D	115.0	345	358	1.0658	1.0043	0.9300	1.0700	0.9541	1.0545	HR	856	314562 3CLUBHSE 115 314565 3CLHSH71 115 21
314704	3JAWRENC	115.0	345	358	1.0764	1.0060	0.9300	1.0700	0.9557	1.0563	HR	856	314562 3CLUBHSE 115 314565 3CLHSH71 115 21
314782	2BRUNSW	69.0	345	358	1.0930	1.0269	0.9300	1.0700	0.9755	1.0782	HR	856	314562 3CLUBHSE 115 314565 3CLHSH71 115 21
314785	2DANITWN	69.0	345	358	1.0394	0.9730	0.9300	1.0700	0.9243	1.0716	R	856	314562 3CLUBHSE 115 314565 3CLHSH71 115 21
314786	2CARBURG	69.0	345	358	1.0797	1.0101	0.9300	1.0700	0.9596	1.0606	HR	856	314562 3CLUBHSE 115 314565 3CLHSH71 115 21
314787	2BRUNSW2	69.0	345	358	1.0640	0.9993	0.9300	1.0700	0.9494	1.0493	R	856	314562 3CLUBHSE 115 314565 3CLHSH71 115 21
314850	3CLUBHS 1	115.0	345	362	1.0951	1.0033	0.9300	1.0700	0.9531	1.0534	HR	856	314562 3CLUBHSE 115 314565 3CLHSH71 115 21
314872	2BRUNSWC	69.0	345	358	1.0511	0.9855	0.9300	1.0700	0.9363	1.0348	R	856	314562 3CLUBHSE 115 314565 3CLHSH71 115 21
314576	3FIVE PT	115.0	345	362	1.0290	0.9789	0.9300	1.0700	0.9300	1.0279	R	886	314576 3FIVE PT 115 314592 3PANTEGO 115 1
313830	3KRAWK 1	115.0	345	361	1.0804	1.0268	0.9300	1.0700	0.9850	1.0886	H	941	314635 3COLNGTP 115 314720 3 52T190 115 1
314634	3COLNGTN	115.0	345	361	1.0708	1.0263	0.9300	1.0700	0.9749	1.0776	H	941	314635 3COLNGTP 115 314720 3 52T190 115 1
314635	3COLNGTP	115.0	345	361	1.0905	1.0268	0.9300	1.0700	0.9754	1.0781	HR	941	314635 3COLNGTP 115 314720 3 52T190 115 1
314636	3COLLING2	115.0	345	361	1.0957	1.0317	0.9300	1.0700	0.9801	1.0833	HR	941	314635 3COLNGTP 115 314720 3 52T190 115 1
314641	3KITTY H	115.0	345	361	1.0798	1.0363	0.9300	1.0700	0.9845	1.0881	H	941	314635 3COLNGTP 115 314720 3 52T190 115 1
314646	3KITTY 4	34.5	345	361	1.0798	1.0363	0.9300	1.0700	0.9845	1.0881	H	941	314635 3COLNGTP 115 314720 3 52T190 115 1
314650	3KITTY 5	34.5	345	361	1.0808	1.0373	0.9300	1.0700	0.9854	1.0891	H	941	314635 3COLNGTP 115 314720 3 52T190 115 1
314829	3COLIN 1	115.0	345	361	1.0963	1.0322	0.9300	1.0700	0.9806	1.0838	HR	941	314635 3COLNGTP 115 314720 3 52T190 115 1
314830	3COLING 1	115.0	345	361	1.0713	1.0268	0.9300	1.0700	0.9754	1.0781	H	941	314635 3COLNGTP 115 314720 3 52T190 115 1
315146	3KITTYHRA	13.8	345	361	1.0798	1.0363	0.9300	1.0700	0.9845	1.0881	H	941	314635 3COLNGTP 115 314720 3 52T190 115 1
315147	3KITTYH8	13.8	345	361	1.0808	1.0374	0.9300	1.0700	0.9855	1.0892	H	941	314635 3COLNGTP 115 314720 3 52T190 115 1
BS1162	KITT 3M4	1.0	345	361	1.0798	1.0363	0.9300	1.0700	0.9845	1.0881	H	941	314635 3COLNGTP 115 314720 3 52T190 115 1
BS1163	KITT 3M5	1.0	345	361	1.0808	1.0374	0.9300	1.0700	0.9855	1.0892	H	941	314635 3COLNGTP 115 314720 3 52T190 115 1
314348	2GRETN 1	69.0	345	358	1.0765	1.0069	0.9300	1.0700	0.9565	1.0572	HR	1047	314731 2GRETNA 69.0 314732 2GRNA FB 69.0 21
314732	2GRNA FB	69.0	345	358	1.0762	1.0066	0.9300	1.0700	0.9563	1.0570	HR	1047	314731 2GRETNA 69.0 314732 2GRNA FB 69.0 21
314737	2SW35T57	69.0	345	358	1.0664	1.0113	0.9300	1.0700	0.9608	1.0619	R	1047	314731 2GRETNA 69.0 314732 2GRNA FB 69.0 21
314738	2MT AIRY	69.0	345	358	1.0609	1.0055	0.9300	1.0700	0.9553	1.0558	R	1047	314731 2GRETNA 69.0 314732 2GRNA FB 69.0 21
314739	2MT A TP	69.0	345	358	1.0664	1.0113	0.9300	1.0700	0.9608	1.0619	R	1047	314731 2GRETNA 69.0 314732 2GRNA FB 69.0 21
314348	2GRETN 1	69.0	345	358	1.0697	1.0069	0.9300	1.0700	0.9565	1.0572	R	1048	314731 2GRETNA 69.0 314733 2GRNA DP 69.0 1
314731	2GRETNA	69.0	345	358	1.0694	1.0066	0.9300	1.0700	0.9563	1.0570	R	1048	314731 2GRETNA 69.0 314733 2GRNA DP 69.0 1
314732	2GRNA FB	69.0	345	358	1.0694	1.0066	0.9300	1.0700	0.9563	1.0570	R	1048	314731 2GRETNA 69.0 314733 2GRNA DP 69.0 1
314746	4BREMO	138.0	345	363	0.9395	0.9977	0.9300	1.0700	0.9478	1.0476	D	1057	314744 3BREMO 115 314746 4BREMO 138 1
314768	3MITCHEL	115.0	345	363	0.9421	1.0032	0.9300	1.0700	0.9530	1.0534	D	1100	314768 3MITCHEL 115 314815 3OAK GRE 115 1
314858	3ROCKB T	115.0	345	365	0.9431	0.9978	0.9300	1.0700	0.9479	1.0477	D	1192	314853 3LEXNGTN 115 314858 3ROCKB T 115 1
314855	6LOWMOOR	230.0	345	365	0.9267	0.9775	0.9300	1.0700	0.9286	1.0264	LD	1195	314855 6LOWMOOR 230 314856 6LEXNGT2 230 1
315226	1N ANNA2	22.0	345	366	1.0731	1.0628	0.9300	1.0700	1.0096	1.1159	H	1207	314897 8MORRIS 1 500 314916 8MORRISVL 500 1

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- WED, FEB 20 2013 11:04 <BRV003.0>
2021 SUMMER BASE CASE (ERAG/MMWG22S11) REV. 04/02/2012
2013 LF WPRE
Case.File X:\S2021\sum_2021(2013LF)_wpre.sav
Subsys.File X:\S2015\ldvp.sub
Monit.File X:\S2015\lvapsys.mon
Contin.File X:\S2021\sum2021wpre.con
Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 93.5 % of nominal rating

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	93.6	71.3	89.0	105.1	233	LN 263
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	92.0	69.7	89.0	103.3	233	LN 263
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	91.7	71.3	89.0	103.1	186	LN 214
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	91.4	71.3	89.0	102.7	401	LN 2102
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	90.2	69.7	89.0	101.3	186	LN 214
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	89.8	69.7	89.0	100.9	401	LN 2102
314421	6WINCHST	230	314540 6POOLSVL	230	LN	LN	551.8	400.3	559.0	98.7	233	LN 263
314387	3LANEXA	115	314388 6LANEXA	230	TR	TR	188.5	89.7	191.7	98.3	411	LN 2113
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	86.8	71.3	89.0	97.6	204	LN 234
313818	6BENCHRCH	230	314522 6CHCKTUK	230	LN	LN	568.6	391.3	584.0	97.4	186	LN 214
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	86.3	71.3	89.0	96.9	230	LN 261
314377	3DOW 34	115	314387 3LANEXA	115	LN	LN	85.7	71.3	89.0	96.3	181	LN 209
314756	3DOUBLDY	115	314776 3SOMRSET	115	LN	LN	251.3	141.3	262.0	95.9	224	LN 255
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	85.3	69.7	89.0	95.8	204	LN 234
314123	3WELLGTN	115	314141 3LIBERTY	115	LN	LN	172.2	84.2	180.0	95.6	322	LN 2011
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	84.7	69.7	89.0	95.1	230	LN 261
314756	3DOUBLDY	115	314769 3ORANGE	115	LN	LN	248.1	138.2	262.0	94.7	224	LN 255
314377	3DOW 34	115	314378 3FTEUS34	115	LN	LN	84.1	69.7	89.0	94.5	181	LN 209
314449	6CHESAPK	230	314514 6YADKIN	230	LN	LN	681.3	545.1	722.0	94.4	329	LN 2018

AC Bus Voltage Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- WED, FEB 20 2013 11:04 <VOW003.0>

2021 SUMMER BASE CASE (ERAG/MMWG22511) REV. 04/02/2012

2013 LF WPRE

Case File X:\S2021\sum_2012(2013LF)_wpre.sav

Subsys File X:\S2015\drv.sub

Monit File X:\S2015\wapsys.mon

Contn File X:\S2021\sum201wpre.con

Exclud File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	UppLimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314524	3FRNKLN	115.0	345	360	1.0765	1.0219	0.9300	1.0700	0.9708	1.0730	HR	60	LN 68
314534	ES HAMPT	115.0	345	360	1.0726	1.0224	0.9300	1.0700	0.9713	1.0735	H	60	LN 68
314539	3UNCAMP	115.0	345	360	1.0802	1.0212	0.9300	1.0700	0.9701	1.0722	HR	60	LN 68
314541	3WATKINS	115.0	345	360	1.0748	1.0234	0.9300	1.0700	0.9722	1.0746	HR	60	LN 68
314824	3UNCAM 1	115.0	345	360	1.0809	1.0219	0.9300	1.0700	0.9708	1.0729	HR	60	LN 68
314826	3WATK 1	115.0	345	360	1.0753	1.0239	0.9300	1.0700	0.9727	1.0751	HR	60	LN 68
314827	3WATK 2	115.0	345	360	1.0753	1.0239	0.9300	1.0700	0.9727	1.0751	HR	60	LN 68
315115	1SHAMPT1	13.8	345	360	1.0440	0.9918	0.9300	1.0700	0.9422	1.0414	R	60	LN 68
314147	3M1CR172	115.0	345	353	0.9282	0.9655	0.9300	1.0700	0.9172	1.0138	L	150	LN 172
314348	2GRETN 1	69.0	345	358	1.0697	1.0069	0.9300	1.0700	0.9565	1.0572	R	151	LN 173
314731	2GRETN A	69.0	345	358	1.0694	1.0066	0.9300	1.0700	0.9563	1.0570	R	151	LN 173
314732	2GRNA FB	69.0	345	358	1.0694	1.0066	0.9300	1.0700	0.9563	1.0570	R	151	LN 173
314874	2LN 174	69.0	345	351	1.0570	1.0018	0.9300	1.0700	0.9517	1.0518	R	152	LN 174
314878	2LN 178	69.0	345	351	1.0569	1.0018	0.9300	1.0700	0.9517	1.0518	R	154	LN 178
314879	2LN 179	69.0	345	351	1.0571	1.0018	0.9300	1.0700	0.9517	1.0518	R	155	LN 179
314880	2LN 180	69.0	345	351	1.0572	1.0018	0.9300	1.0700	0.9517	1.0518	R	156	LN 180
314122	3SOWEGO	115.0	345	353	0.9316	1.0002	0.9300	1.0700	0.9502	1.0502	D	157	LN 181
314025	1 TX500	13.2	345	353	0.9255	0.9976	0.9300	1.0700	0.9478	1.0475	LD	170	LN 197
314049	3LOMA172	115.0	345	353	0.9283	0.9655	0.9300	1.0700	0.9172	1.0137	L	170	LN 197
314051	3LOMA197	115.0	345	353	0.8992	0.9966	0.9300	1.0700	0.9468	1.0464	LD	170	LN 197
314147	3M1CR172	115.0	345	353	0.9286	0.9655	0.9300	1.0700	0.9172	1.0138	L	170	LN 197
314148	3M1CR197	115.0	345	353	0.8625	0.9961	0.9300	1.0700	0.9463	1.0459	LD	170	LN 197
314158	3GODW197	115.0	345	353	0.9149	0.9959	0.9300	1.0700	0.9461	1.0457	LD	170	LN 197
314160	1 TX503	13.2	345	353	0.9256	0.9977	0.9300	1.0700	0.9478	1.0475	LD	170	LN 197
314402	6PENINSL	230.0	345	356	0.9470	1.0006	0.9300	1.0700	0.9505	1.0506	D	230	LN 261
314407	6SHELANK	230.0	345	356	0.9399	0.9991	0.9300	1.0700	0.9492	1.0491	D	230	LN 261

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	Upplimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314398	6NP NEWS	230.0	345	356	0.9487	1.0072	0.9300	1.0700	0.9569	1.0576	D	233 LN 263	
314399	6PEMBROK	230.0	345	356	0.9471	1.0033	0.9300	1.0700	0.9531	1.0535	D	233 LN 263	
314402	6PENINSL	230.0	345	356	0.9504	1.0006	0.9300	1.0700	0.9505	1.0506	D	233 LN 263	
314407	6SHELBNK	230.0	345	356	0.9456	0.9991	0.9300	1.0700	0.9492	1.0491	D	233 LN 263	
314442	6NP NE 1	230.0	345	356	0.9507	1.0093	0.9300	1.0700	0.9588	1.0597	D	233 LN 263	
314014	3CANNONB	115.0	345	353	0.8411	0.9975	0.9300	1.0700	0.9476	1.0474	LD	322 LN 2011	
314025	1 TX500	13.2	345	353	0.9009	0.9976	0.9300	1.0700	0.9478	1.0475	LD	322 LN 2011	
314049	3LOMA172	115.0	345	353	0.9099	0.9655	0.9300	1.0700	0.9172	1.0137	LD	322 LN 2011	
314051	3LOMA197	115.0	345	353	0.8414	0.9966	0.9300	1.0700	0.9468	1.0464	LD	322 LN 2011	
314123	3WELLGTN	115.0	345	353	0.9244	0.9679	0.9300	1.0700	0.9195	1.0163	L	322 LN 2011	
314141	3LIBERTY	115.0	345	353	0.9261	0.9691	0.9300	1.0700	0.9206	1.0175	L	322 LN 2011	
314147	3MICR172	115.0	345	353	0.9105	0.9655	0.9300	1.0700	0.9172	1.0138	LD	322 LN 2011	
314148	3MICR197	115.0	345	353	0.8414	0.9961	0.9300	1.0700	0.9463	1.0459	LD	322 LN 2011	
314155	3CANBR T	115.0	345	353	0.8413	0.9968	0.9300	1.0700	0.9469	1.0466	LD	322 LN 2011	
314157	3GODW172	115.0	345	353	0.9151	0.9665	0.9300	1.0700	0.9182	1.0148	LD	322 LN 2011	
314158	3GODW197	115.0	345	353	0.8417	0.9959	0.9300	1.0700	0.9461	1.0457	LD	322 LN 2011	
314160	1 TX503	13.2	345	353	0.9009	0.9977	0.9300	1.0700	0.9478	1.0475	LD	322 LN 2011	
315085	1SPRUNCC	230.0	345	357	1.0500	0.9951	0.9300	1.0700	0.9453	1.0448	R	363 LN 2055	
314180	6HAYES	230.0	345	354	0.9016	1.0083	0.9300	1.0700	0.9579	1.0587	LD	419 LN 2122	
314207	6OK GRE	230.0	345	363	0.9066	0.9981	0.9300	1.0700	0.9482	1.0480	LD	427 LN 2133	
314025	1 TX500	13.2	345	353	0.8968	0.9976	0.9300	1.0700	0.9478	1.0475	LD	456 TX-1 3MICR19	
314160	1 TX503	13.2	345	353	0.8968	0.9977	0.9300	1.0700	0.9478	1.0475	LD	456 TX-1 3MICR19	
314114	3LINDNDL	115.0	345	353	0.9337	0.9899	0.9300	1.0700	0.9404	1.0394	D	473 TX-1 60X	
314118	3MINNIEV	115.0	345	353	0.9321	0.9925	0.9300	1.0700	0.9428	1.0421	D	473 TX-1 60X	
314167	3OX	115.0	345	352	0.9322	1.0019	0.9300	1.0700	0.9518	1.0520	D	473 TX-1 60X	
314122	3SOWEGO	115.0	345	353	0.9322	1.0002	0.9300	1.0700	0.9502	1.0502	D	495 TX-1 6BRISTE	
314156	3BRISTER	115.0	345	353	0.9322	1.0041	0.9300	1.0700	0.9539	1.0543	D	495 TX-1 6BRISTE	
314049	3LOMA172	115.0	345	353	0.8961	0.9655	0.9300	1.0700	0.9172	1.0137	LD	498 TX-1 6LIBERT	
314123	3WELLGTN	115.0	345	353	0.8938	0.9679	0.9300	1.0700	0.9195	1.0163	LD	498 TX-1 6LIBERT	
314141	3LIBERTY	115.0	345	353	0.8938	0.9691	0.9300	1.0700	0.9206	1.0175	LD	498 TX-1 6LIBERT	
314147	3MICR172	115.0	345	353	0.8959	0.9655	0.9300	1.0700	0.9172	1.0138	LD	498 TX-1 6LIBERT	
314157	3GODW172	115.0	345	353	0.8952	0.9665	0.9300	1.0700	0.9182	1.0148	LD	498 TX-1 6LIBERT	

CATEGORY C

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- WED, FEB 20 2013 12:24 <BRV003.0>
2021 SUMMER BASE CASE (ERAG/MMWG22S11) REV. 04/02/2012

2013 LF WPRE

Case.File X:\S2021\sum_2021(2013LF)_wpre.sav

Subsys.File X:\S2015\drv.sub

Monit.File X:\S2015\vapsys.mon

Contin.File X:\S2021\2021_rtep_tower_contingency_DVP.con

Exclud.File none

***** Report on violations *****

Branches with MVA Flow more than 99.0 % of nominal rating

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314682	3BUGGS I	115	315151	1BUGGS 2	13.8	TR	69.9	69.9	70.0	99.8	**	Base Case **
313812	6ROCKLANDING	230	314423	6YORKTWN	230	LN	583.2	59.7	541.0	107.8	9	2146263
314214	6CHCKAHM	230	314390	6LIGH285	230	LN	1108.1	421.0	830.0	133.5	9	2146263
314214	6CHCKAHM	230	314903	8CHCKAHM	500	TR	947.6	451.8	944.6	100.3	9	2146263
314296	6PENNINGAN	230	314386	6KINGS M	230	LN	752.2	191.2	541.0	139.0	9	2146263
314296	6PENNINGAN	230	314415	6WALR209	230	LN	773.5	208.2	541.0	143.0	9	2146263
314339	6SPRUNCE	230	315083	1SPRUNCA	13.8	TR	69.9	59.6	67.5	103.5	9	2146263
314376	6DENBIGH	230	314413	6WALR285	230	LN	854.8	259.5	830.0	103.0	9	2146263
314377	3DOW 34	115	314378	3FTEUS34	115	LN	211.3	69.7	103.0	205.1	9	2146263
314377	3DOW 34	115	314387	3LANEXA	115	LN	214.1	71.3	103.0	207.9	9	2146263
314378	3FTEUS34	115	314381	3GRAFT34	115	LN	186.4	56.9	103.0	180.9	9	2146263
314384	3KINGS M	115	314411	3TOANO58	115	LN	204.2	74.3	169.0	120.8	9	2146263
314386	6KINGS M	230	314423	6YORKTWN	230	LN	718.3	166.2	541.0	132.8	9	2146263
314387	3LANEXA	115	314396	3NNEWS58	115	LN	245.9	103.5	169.0	145.5	9	2146263
314388	6LANEXA	230	314391	6LIGH209	230	LN	969.3	333.6	812.0	119.4	9	2146263
314390	6LIGH285	230	314413	6WALR285	230	LN	984.6	331.6	830.0	118.6	9	2146263
314391	6LIGH209	230	314415	6WALR209	230	LN	896.1	282.5	541.0	165.6	9	2146263
314396	3NNEWS58	115	314411	3TOANO58	115	LN	245.9	103.5	169.0	145.5	9	2146263
314377	3DOW 34	115	314378	3FTEUS34	115	LN	107.6	69.7	103.0	104.4	21	2096285
314377	3DOW 34	115	314387	3LANEXA	115	LN	109.3	71.3	103.0	106.1	21	2096285
314377	3DOW 34	115	314378	3FTEUS34	115	LN	111.8	69.7	103.0	108.5	22	2113658
314377	3DOW 34	115	314387	3LANEXA	115	LN	113.4	71.3	103.0	110.0	22	2113658
314041	6GLEBE	230	314185	6RADNOR	230	LN	361.9	172.1	354.0	102.2	62	2506258

AC Bus Voltage Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- WED, FEB 20 2013 12:24 <VOW003.0>

2021 SUMMER BASE CASE (ERAG/MMWG22S11) REV. 04/02/2012

2013 LF WPRE

Case File X:\S2021\sum_2021(2013LF)_wpre.sav

Subsys File X:\S2015\advp.sub

Monit. File X:\S2015\vapsys.mon

Contin. File X:\S2021\2021_rtep_tower_contingency_DVP.com

Exclud. File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	Upplimi t	VoltDro P	VoltRis e	Viol.	Ncon.	Contingency Description
313809	6WT RD212	230.0	345	355	0.9455	0.9963	0.9300	1.0700	0.9465	1.0461	D	9	2144263
313810	6DAHLGREN	230.0	345	354	0.9011	0.9905	0.9300	1.0700	0.9410	1.0401	LD	9	2144263
313811	6ELKO L28	230.0	345	355	0.8867	1.0061	0.9300	1.0700	0.9558	1.0564	LD	9	2144263
313812	6ROCKLAND	230.0	345	356	0.5903	0.9918	0.9300	1.0700	0.9517	1.0519	LD	9	2144263
313813	3OCCAN	115.0	345	354	0.6942	0.9927	0.9300	1.0700	0.9431	1.0423	LD	9	2144263
313828	3WHITEMAR	115.0	345	354	0.6000	0.9982	0.9300	1.0700	0.9483	1.0481	LD	9	2144263
314131	6BARNOLDS	230.0	345	354	0.9348	0.9959	0.9300	1.0700	0.9461	1.0457	D	9	2144263
314139	6OAKGROV	230.0	345	354	0.8624	0.9897	0.9300	1.0700	0.9403	1.0392	LD	9	2144263
314172	6DUNNSVL	230.0	345	354	0.8032	0.9904	0.9300	1.0700	0.9409	1.0400	LD	9	2144263
314173	3GARNER	115.0	345	354	0.7411	0.9919	0.9300	1.0700	0.9423	1.0415	LD	9	2144263
314174	3HARMONY	115.0	345	354	0.6809	0.9965	0.9300	1.0700	0.9467	1.0463	LD	9	2144263
314175	6COMORN	230.0	345	354	0.9391	0.9967	0.9300	1.0700	0.9469	1.0465	D	9	2144263
314176	6HARMONY	230.0	345	354	0.7290	1.0030	0.9300	1.0700	0.9529	1.0532	LD	9	2144263
314177	3HAYES89	115.0	345	354	0.5756	0.9984	0.9300	1.0700	0.9485	1.0484	LD	9	2144263
314178	3LANCAST	115.0	345	354	0.6995	0.9935	0.9300	1.0700	0.9438	1.0431	LD	9	2144263
314180	6HAYES	230.0	345	354	0.5610	1.0083	0.9300	1.0700	0.9579	1.0587	LD	9	2144263
314181	3NORNECK	115.0	345	354	0.8135	1.0011	0.9300	1.0700	0.9510	1.0511	LD	9	2144263
314182	6NORNECK	230.0	345	354	0.8135	0.9873	0.9300	1.0700	0.9379	1.0366	LD	9	2144263
314183	6SANDERS	230.0	345	354	0.8228	0.9875	0.9300	1.0700	0.9381	1.0369	LD	9	2144263
314184	3SHACKLE	115.0	345	354	0.6882	0.9928	0.9300	1.0700	0.9431	1.0424	LD	9	2144263
314187	3WAN 176	115.0	345	354	0.6524	0.9794	0.9300	1.0700	0.9304	1.0283	LD	9	2144263
314188	3WEST PT	115.0	345	354	0.6930	0.9910	0.9300	1.0700	0.9415	1.0406	LD	9	2144263
314189	6PAPERMI	230.0	345	354	0.7536	1.0010	0.9300	1.0700	0.9509	1.0510	LD	9	2144263
314190	6WESTWOT	230.0	345	354	0.8388	0.9887	0.9300	1.0700	0.9392	1.0381	LD	9	2144263
314191	3WHITE S	115.0	345	354	0.6900	0.9927	0.9300	1.0700	0.9430	1.0423	LD	9	2144263
314211	3ACCA	115.0	345	355	0.9363	0.9901	0.9300	1.0700	0.9406	1.0397	D	9	2144263

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Upplim t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314213	3CARVER	115.0	345	355	0.9306	0.9866	0.9300	1.0700	0.9373	1.0360	D		9 2146263
314214	6CHICKAHM	230.0	345	355	0.8633	1.0084	0.9300	1.0700	0.9580	1.0588	LD		9 2146263
314224	3LAKESD1	115.0	345	355	0.9459	0.9983	0.9300	1.0700	0.9482	1.0482	D		9 2146263
314226	3LAKESD2	115.0	345	355	0.9472	0.9997	0.9300	1.0700	0.9497	1.0497	D		9 2146263
314229	6MT R221	230.0	345	355	0.9463	0.9971	0.9300	1.0700	0.9472	1.0469	D		9 2146263
314234	3NTHST	115.0	345	355	0.9395	0.9995	0.9300	1.0700	0.9495	1.0495	D		9 2146263
314236	6NTHST	230.0	345	355	0.9371	1.0013	0.9300	1.0700	0.9512	1.0514	D		9 2146263
314237	3NTHST	115.0	345	355	0.9511	1.0012	0.9300	1.0700	0.9511	1.0512	D		9 2146263
314238	6NTHST	230.0	345	355	0.9457	0.9973	0.9300	1.0700	0.9475	1.0472	D		9 2146263
314241	6OLDCHRC	230.0	345	355	0.9036	1.0023	0.9300	1.0700	0.9522	1.0524	LD		9 2146263
314242	6PEARSON	230.0	345	355	0.9286	1.0002	0.9300	1.0700	0.9502	1.0502	LD		9 2146263
314243	3PROV 92	115.0	345	355	0.7628	0.9921	0.9300	1.0700	0.9425	1.0417	LD		9 2146263
314245	6SOUTHWES	230.0	345	357	0.9469	1.0043	0.9300	1.0700	0.9541	1.0545	D		9 2146263
314246	3R&P 60	115.0	345	355	0.9402	0.9931	0.9300	1.0700	0.9435	1.0428	D		9 2146263
314247	3RIVER86	115.0	345	355	0.9428	0.9954	0.9300	1.0700	0.9456	1.0452	D		9 2146263
314248	6RIVER222	230.0	345	355	0.9425	0.9967	0.9300	1.0700	0.9468	1.0465	D		9 2146263
314249	3SHOCKOE	115.0	345	355	0.9265	0.9824	0.9300	1.0700	0.9332	1.0315	LD		9 2146263
314252	3TURNR92	115.0	345	355	0.8724	0.9917	0.9300	1.0700	0.9421	1.0413	LD		9 2146263
314253	3TURNER	230.0	345	355	0.9078	1.0050	0.9300	1.0700	0.9548	1.0553	LD		9 2146263
314254	3WELTH	115.0	345	355	0.9431	0.9943	0.9300	1.0700	0.9446	1.0440	D		9 2146263
314256	3WECO 7	115.0	345	355	0.9297	0.9876	0.9300	1.0700	0.9382	1.0370	LD		9 2146263
314257	6WHITOK	230.0	345	355	0.8841	1.0063	0.9300	1.0700	0.9560	1.0566	LD		9 2146263
314258	6ELKO	230.0	345	355	0.8817	1.0065	0.9300	1.0700	0.9562	1.0568	LD		9 2146263
314271	6ALLIED	230.0	345	357	0.9033	1.0066	0.9300	1.0700	0.9562	1.0569	LD		9 2146263
314272	6ALPINE	230.0	345	357	0.9012	1.0065	0.9300	1.0700	0.9562	1.0569	LD		9 2146263
314274	3BASIN	115.0	345	357	0.9467	0.9977	0.9300	1.0700	0.9478	1.0475	D		9 2146263
314277	3BELL72	115.0	345	357	0.9383	0.9986	0.9300	1.0700	0.9487	1.0486	D		9 2146263
314279	3BROVERI	115.0	345	357	0.9379	0.9988	0.9300	1.0700	0.9489	1.0487	D		9 2146263
314281	6BURDET	230.0	345	357	0.9059	1.0067	0.9300	1.0700	0.9563	1.0570	LD		9 2146263
314283	3CENTTIA	115.0	345	357	0.9364	0.9970	0.9300	1.0700	0.9471	1.0468	D		9 2146263
314284	3CHSTFLD	115.0	345	357	0.9376	1.0000	0.9300	1.0700	0.9500	1.0500	D		9 2146263
314286	6CHSTF A	230.0	345	357	0.9335	1.0087	0.9300	1.0700	0.9583	1.0591	D		9 2146263
314289	6DARBYTN	230.0	345	355	0.9285	1.0050	0.9300	1.0700	0.9548	1.0553	LD		9 2146263
314293	3DU FONT	115.0	345	357	0.9360	0.9911	0.9300	1.0700	0.9415	1.0406	D		9 2146263
314294	6ENON	230.0	345	357	0.9104	1.0069	0.9300	1.0700	0.9565	1.0572	LD		9 2146263
314296	6PENMAN	230.0	345	356	0.6261	1.0006	0.9300	1.0700	0.9506	1.0506	LD		9 2146263
314300	3KEVLAR	115.0	345	357	0.9355	0.9909	0.9300	1.0700	0.9414	1.0405	D		9 2146263
314304	6HENT22	230.0	345	357	0.9433	0.9990	0.9300	1.0700	0.9490	1.0489	D		9 2146263
314306	6HULL219	230.0	345	357	0.9497	1.0007	0.9300	1.0700	0.9507	1.0507	D		9 2146263
314308	6ICI	230.0	345	357	0.8984	1.0065	0.9300	1.0700	0.9562	1.0569	LD		9 2146263
314309	6IRON208	230.0	345	357	0.9377	1.0036	0.9300	1.0700	0.9535	1.0538	D		9 2146263
314313	3KINGSLN	115.0	345	357	0.9375	0.9991	0.9300	1.0700	0.9492	1.0491	D		9 2146263
314317	3MANCHST	115.0	345	357	0.9463	0.9991	0.9300	1.0700	0.9492	1.0491	D		9 2146263
314318	3MARBRO	115.0	345	357	0.9402	0.9933	0.9300	1.0700	0.9436	1.0430	D		9 2146263

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	UppLimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314319	3MAURY24	115.0		345	357	0.9463	0.9989	0.9300	1.0700	0.9490	1.0489	D	9 2146263
314323	3NC GAS	115.0		345	357	0.9401	0.9995	0.9300	1.0700	0.9495	1.0494	D	9 2146263
314324	3PIPELIN	115.0		345	357	0.9449	0.9960	0.9300	1.0700	0.9462	1.0458	D	9 2146263
314327	3PLAZA	115.0		345	357	0.9461	1.0024	0.9300	1.0700	0.9523	1.0525	D	9 2146263
314328	6PLAZA	230.0		345	357	0.9420	0.9992	0.9300	1.0700	0.9492	1.0491	D	9 2146263
314332	3PORTR24	115.0		345	357	0.9463	0.9991	0.9300	1.0700	0.9492	1.0491	D	9 2146263
314336	3REYMT72	115.0		345	357	0.9375	0.9992	0.9300	1.0700	0.9492	1.0491	D	9 2146263
314338	6SOUTWEST	230.0		345	357	0.9440	1.0013	0.9300	1.0700	0.9512	1.0514	D	9 2146263
314341	3STRATED	115.0		345	357	0.9366	0.9914	0.9300	1.0700	0.9419	1.0410	D	9 2146263
314344	3TYLER	115.0		345	357	0.9434	0.9991	0.9300	1.0700	0.9492	1.0491	D	9 2146263
314371	3AMOCO Y	115.0		345	356	0.5251	0.9849	0.9300	1.0700	0.9357	1.0342	D	9 2146263
314372	3BLOXOMC	115.0		345	356	0.4859	0.9895	0.9300	1.0700	0.9400	1.0389	D	9 2146263
314373	3COLONY	115.0		345	356	0.5013	0.9840	0.9300	1.0700	0.9348	1.0332	D	9 2146263
314374	3COPELAND	115.0		345	356	0.5077	0.9961	0.9300	1.0700	0.9463	1.0459	D	9 2146263
314375	3CORRTN	230.0		345	354	0.7624	1.0018	0.9300	1.0700	0.9517	1.0519	D	9 2146263
314376	6DENBIGH	230.0		345	356	0.5774	1.0023	0.9300	1.0700	0.9522	1.0524	D	9 2146263
314377	3DOW 34	115.0		345	356	0.5912	0.9863	0.9300	1.0700	0.9370	1.0356	D	9 2146263
314378	3FTEUS34	115.0		345	356	0.5696	0.9838	0.9300	1.0700	0.9346	1.0330	D	9 2146263
314379	3FTEUS58	115.0		345	356	0.5367	0.9703	0.9300	1.0700	0.9217	1.0188	D	9 2146263
314381	3GRAFT34	115.0		345	356	0.5429	0.9828	0.9300	1.0700	0.9336	1.0319	D	9 2146263
314382	3GRAFT58	115.0		345	356	0.5310	0.9765	0.9300	1.0700	0.9277	1.0253	D	9 2146263
314384	3KINGS M	115.0		345	356	0.5519	0.9663	0.9300	1.0700	0.9180	1.0146	D	9 2146263
314385	3SHAWO 1	115.0		345	354	0.6805	0.9972	0.9300	1.0700	0.9473	1.0470	D	9 2146263
314386	6KINGS M	230.0		345	356	0.6141	1.0015	0.9300	1.0700	0.9515	1.0516	D	9 2146263
314387	3LANEXA	115.0		345	356	0.7103	0.9928	0.9300	1.0700	0.9432	1.0424	D	9 2146263
314388	6LANEXA	230.0		345	356	0.5390	1.0032	0.9300	1.0700	0.9530	1.0533	D	9 2146263
314389	3LEBAN58	115.0		345	356	0.5390	0.9679	0.9300	1.0700	0.9195	1.0163	D	9 2146263
314390	6LIGH285	230.0		345	356	0.6609	0.9966	0.9300	1.0700	0.9468	1.0465	D	9 2146263
314391	6LIGH209	230.0		345	356	0.6787	0.9990	0.9300	1.0700	0.9490	1.0489	D	9 2146263
314392	3MAGRUDR	115.0		345	356	0.5057	0.9960	0.9300	1.0700	0.9462	1.0459	D	9 2146263
314393	3MERCURY	115.0		345	356	0.4961	0.9956	0.9300	1.0700	0.9458	1.0454	D	9 2146263
314394	3NASA	115.0		345	356	0.5102	0.9940	0.9300	1.0700	0.9443	1.0437	D	9 2146263
314395	3SHAWO 2	115.0		345	354	0.6803	0.9970	0.9300	1.0700	0.9471	1.0468	D	9 2146263
314396	3NEWS58	115.0		345	356	0.6516	0.9814	0.9300	1.0700	0.9323	1.0305	D	9 2146263
314397	3NEWS75	115.0		345	356	0.5077	0.9961	0.9300	1.0700	0.9463	1.0459	D	9 2146263
314398	6NF NEWS	230.0		345	356	0.5062	1.0072	0.9300	1.0700	0.9569	1.0576	D	9 2146263
314399	6PEMBROK	230.0		345	356	0.5072	1.0033	0.9300	1.0700	0.9531	1.0535	D	9 2146263
314400	3LANCA 1	115.0		345	354	0.6999	0.9940	0.9300	1.0700	0.9443	1.0437	D	9 2146263
314401	3PENINSL	115.0		345	356	0.5102	0.9940	0.9300	1.0700	0.9443	1.0437	D	9 2146263
314402	6PENINSL	230.0		345	356	0.5204	1.0006	0.9300	1.0700	0.9505	1.0506	D	9 2146263
314403	3SEAFD76	115.0		345	356	0.5200	0.9866	0.9300	1.0700	0.9373	1.0360	D	9 2146263
314404	3SEAF079	115.0		345	356	0.5194	0.9862	0.9300	1.0700	0.9369	1.0355	D	9 2146263
314406	3SHELBNK	115.0		345	356	0.5051	1.0008	0.9300	1.0700	0.9508	1.0508	D	9 2146263
314407	6SHELBNK	230.0		345	356	0.5084	0.9991	0.9300	1.0700	0.9492	1.0491	D	9 2146263

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	OppLimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314408	6CHCKA 1	230.0	345	355	0.8659	1.0115	0.9300	1.0700	0.9609	1.0620	LD	9	2144263
314409	6TABB	230.0	345	356	0.5310	1.0020	0.9300	1.0700	0.9519	1.0521	LD	9	2144263
314411	3TOANO58	115.0	345	356	0.6440	0.9799	0.9300	1.0700	0.9309	1.0289	LD	9	2144263
314412	3U CARBD	115.0	345	356	0.5102	0.9941	0.9300	1.0700	0.9444	1.0438	LD	9	2144263
314413	6WALR285	230.0	345	356	0.6393	0.9964	0.9300	1.0700	0.9466	1.0462	LD	9	2144263
314414	3WARMICK	115.0	345	356	0.5028	0.9890	0.9300	1.0700	0.9396	1.0385	LD	9	2144263
314415	6WALR209	230.0	345	356	0.6507	0.9988	0.9300	1.0700	0.9499	1.0488	LD	9	2144263
314416	6WARMICK	230.0	345	356	0.5280	1.0015	0.9300	1.0700	0.9514	1.0515	LD	9	2144263
314417	3WHEALTIN	115.0	345	356	0.5092	0.9971	0.9300	1.0700	0.9472	1.0469	LD	9	2144263
314418	6WHEALTIN	230.0	345	356	0.5213	1.0012	0.9300	1.0700	0.9512	1.0513	LD	9	2144263
314419	6NORTHW 1	230.0	345	355	0.9485	1.0003	0.9300	1.0700	0.9503	1.0503	D	9	2144263
314420	3PENIN 1	115.0	345	356	0.5104	0.9945	0.9300	1.0700	0.9448	1.0442	LD	9	2144263
314421	6WINCHST	230.0	345	356	0.5253	1.0010	0.9300	1.0700	0.9510	1.0511	LD	9	2144263
314422	3YORTWN	115.0	345	356	0.5253	0.9850	0.9300	1.0700	0.9358	1.0343	LD	9	2144263
314423	6YORTWN	230.0	345	356	0.5578	1.0070	0.9300	1.0700	0.9566	1.0573	LD	9	2144263
314424	3YNWS 58	115.0	345	356	0.5413	0.9673	0.9300	1.0700	0.9190	1.0157	LD	9	2144263
314425	3YORK PS	115.0	345	356	0.5258	0.9852	0.9300	1.0700	0.9359	1.0344	LD	9	2144263
314440	6LANEX 1	230.0	345	356	0.7754	1.0052	0.9300	1.0700	0.9550	1.0555	LD	9	2144263
314442	6NP NE 1	230.0	345	356	0.5073	1.0093	0.9300	1.0700	0.9588	1.0597	LD	9	2144263
314445	6WHEAL 1	230.0	345	356	0.5223	1.0033	0.9300	1.0700	0.9531	1.0534	LD	9	2144263
314450	6YORKT 1	230.0	345	356	0.5596	1.0103	0.9300	1.0700	0.9598	1.0608	LD	9	2144263
314903	8CHCKARM	500.0	345	366	0.9784	1.0379	0.9300	1.0700	0.9860	1.0898	D	9	2144263
315058	1CHESTF3	14.4	345	357	0.9441	0.9979	0.9300	1.0700	0.9480	1.0478	D	9	2144263
315062	1CHEST57	13.8	345	357	0.9714	1.0307	0.9300	1.0700	0.9791	1.0822	D	9	2144263
315067	1DARBY 1	13.8	345	355	0.9639	1.0394	0.9300	1.0700	0.9874	1.0913	D	9	2144263
315068	1DARBY 2	13.8	345	355	0.9641	1.0395	0.9300	1.0700	0.9876	1.0915	D	9	2144263
315069	1DARBY 3	13.8	345	355	0.9639	1.0393	0.9300	1.0700	0.9873	1.0913	D	9	2144263
315070	1DARBY 4	13.8	345	355	0.9640	1.0394	0.9300	1.0700	0.9875	1.0914	D	9	2144263
315084	1SPRUNCB	13.8	345	357	0.9245	0.9630	0.9300	1.0700	0.9148	1.0111	L	9	2144263
315092	1YORKTN2	18.0	345	357	0.9266	0.9648	0.9300	1.0700	0.9165	1.0130	L	9	2144263
315091	1YORKTN2	18.0	345	356	0.5253	0.9850	0.9300	1.0700	0.9358	1.0343	LD	9	2144263
315092	1YORKTN3	25.0	345	356	0.5578	1.0070	0.9300	1.0700	0.9566	1.0573	LD	9	2144263
314497	6SEWLSPT	230.0	345	359	0.9092	1.0062	0.9300	1.0700	0.9559	1.0565	LD	45	25742099
314500	6NAVYS	230.0	345	359	0.9092	1.0062	0.9300	1.0700	0.9559	1.0565	LD	45	25742099
314501	6NAVYS1	230.0	345	359	0.9091	1.0062	0.9300	1.0700	0.9559	1.0565	LD	45	25742099
314505	6NAVYN	230.0	345	359	0.9092	1.0063	0.9300	1.0700	0.9559	1.0566	LD	45	25742099
314510	6NAVYN1	230.0	345	359	0.9089	1.0060	0.9300	1.0700	0.9557	1.0563	LD	45	25742099

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- MON, FEB 18 2013 6:42 <BRV003.0>
2021 SUMMER BASE CASE (ERAG/MMWG22S11) REV. 04/02/2012
2013 LF WPRE

Case.File H:\Trans Customer Planning\Peter Nedwick\Year2011\SkiffesCreek Application\Rebuttal Study\S2021\sum 2021\2013LF\wpre_Open l65.sav
Subsys.File H:\Trans Customer Planning\Peter Nedwick\Year2011\SkiffesCreek Application\Rebuttal Study\S2021\peninsula_AC.sub
Monit.File H:\Trans Customer Planning\Peter Nedwick\Year2011\SkiffesCreek Application\Rebuttal Study\S2021\vapsys.mon
Contn.File H:\Trans Customer Planning\Peter Nedwick\Year2011\SkiffesCreek Application\peninsula.con
Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 99.0 % of nominal rating

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	230.0	71.6	103.0	223.3	2767	D:6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVLL
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	227.9	71.6	103.0	221.3	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVLL
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	227.2	70.0	103.0	220.6	2767	D:6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVLL
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	225.1	70.0	103.0	218.6	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVLL
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	216.8	71.6	103.0	210.5	2456	D:6BENCHRC-6NP NEWS1 +6SURY -6POOLSVLL
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	214.2	71.6	103.0	208.0	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVLL
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	214.0	70.0	103.0	207.7	2456	D:6BENCHRC-6NP NEWS1 +6SURY -6POOLSVLL
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	211.4	70.0	103.0	205.3	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVLL
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	201.6	57.2	103.0	195.8	2767	D:6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVLL
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	199.7	57.2	103.0	193.8	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVLL
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	188.8	57.2	103.0	183.3	2456	D:6BENCHRC-6NP NEWS1 +6SURY -6POOLSVLL
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	186.4	57.2	103.0	181.0	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVLL
314391	6LIGH209	230	314415 6WALR209	230	1	LN	921.1	280.3	541.0	170.3	2767	D:6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVLL
314391	6LIGH209	230	314415 6WALR209	230	1	LN	913.1	280.3	541.0	168.8	2456	D:6BENCHRC-6NP NEWS1 +6SURY -6POOLSVLL
314391	6LIGH209	230	314415 6WALR209	230	1	LN	911.1	280.3	541.0	168.4	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVLL
314391	6LIGH209	230	314415 6WALR209	230	1	LN	900.6	280.3	541.0	166.5	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVLL
314387	3LANEXA	115	314396 3NNEWS58	115	1	LN	258.9	103.7	169.0	153.2	2767	D:6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVLL
314396	3NNEWS58	115	314411 3TOANO58	115	1	LN	259.0	103.7	169.0	153.2	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVLL
314387	3LANEXA	115	314396 3NNEWS58	115	1	LN	256.9	103.7	169.0	152.0	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVLL
314396	3NNEWS58	115	314411 3TOANO58	115	1	LN	256.9	103.7	169.0	152.0	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVLL
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	153.6	71.6	103.0	149.1	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVLL
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	153.5	71.6	103.0	149.0	23477	D:6NP NEWS-6PEMBROK1 +6SURY -6POOLSVLL
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	151.7	70.0	103.0	147.3	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVLL
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	151.7	70.0	103.0	147.3	23477	D:6NP NEWS-6PEMBROK1 +6SURY -6POOLSVLL
314387	3LANEXA	115	314396 3NNEWS58	115	1	LN	248.6	103.7	169.0	147.1	2456	D:6BENCHRC-6NP NEWS1 +6SURY -6POOLSVLL

**	From bus	**	To bus	**	CRT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314396	3NNWS58	115	314411	3TOANO58	115	I	LN	103.7	169.0	147.1	2456	D:6BENCHRC-6NP NEWS1 +6SURY -6POOLSVL1
314296	6PENNNIMAN	230	314415	6WALR209	230	I	LN	206.1	541.0	147.1	2767	D:6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	146.9	23799	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	146.8	23332	D:6NP NEWS-6PEMBROK1 +6WINCHST-6POOLSVL1
314296	6PENNNIMAN	230	314415	6WALR209	230	I	LN	206.1	541.0	145.9	2456	D:6BENCHRC-6NP NEWS1 +6SURY -6POOLSVL1
314387	3LANEXA	115	314396	3NNWS58	115	I	LN	103.7	169.0	145.7	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314396	3NNWS58	115	314411	3TOANO58	115	I	LN	103.7	169.0	145.7	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314296	6PENNNIMAN	230	314415	6WALR209	230	I	LN	206.1	541.0	145.4	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	70.0	103.0	145.1	23332	D:6NP NEWS-6PEMBROK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	70.0	103.0	145.1	23799	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	144.7	2589	D:6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	144.7	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314296	6PENNNIMAN	230	314415	6WALR209	230	I	LN	206.1	541.0	143.8	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314296	6PENNNIMAN	230	314386	6KINGS M	230	I	LN	189.2	541.0	143.2	2767	D:6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	70.0	103.0	143.0	2589	D:6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	70.0	103.0	143.0	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	143.0	20662	D:6LANEXA -6LIGH2091 +6LIGH285-6WALR2851
314296	6PENNNIMAN	230	314386	6KINGS M	230	I	LN	189.2	541.0	142.0	2456	D:6BENCHRC-6NP NEWS1 +6SURY -6POOLSVL1
314296	6PENNNIMAN	230	314386	6KINGS M	230	I	LN	189.2	541.0	141.5	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	70.0	103.0	141.4	20662	D:6LANEXA -6LIGH2091 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	140.8	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314296	6PENNNIMAN	230	314386	6KINGS M	230	I	LN	189.2	541.0	139.9	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	70.0	103.0	139.2	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	138.9	2309	D:6BENCHRC-6NP NEWS1 +6WHEALTN-6WINCHST1
314387	3LANEXA	115	314388	6LANEXA	230	I	TR	93.9	200.8	138.4	8000	D:3HAYES89-6HAYES 1 +6CORRCTN-6LANEXA 1
314387	3LANEXA	115	314388	6LANEXA	230	I	TR	93.9	200.8	137.7	8583	D:6HAYES -6YORKTWN1 +6CORRCTN-6LANEXA 1
314214	6CHCKRAHM	230	314390	6LIGH285	230	I	LN	418.8	830.0	137.5	2767	D:6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	70.0	103.0	137.2	2309	D:6BENCHRC-6NP NEWS1 +6WHEALTN-6WINCHST1
314386	6KINGS M	230	314423	6YORKTWN	230	I	LN	164.1	541.0	137.0	2767	D:6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	136.8	2593	D:6BENCHRC-6CHCKTUK1 +6LIGH209-6WALR2091
314214	6CHCKRAHM	230	314390	6LIGH285	230	I	LN	418.8	830.0	136.2	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	136.1	21395	D:6LIGH285-6WALR2851 +6LIGH209-6WALR2091
314386	6KINGS M	230	314423	6YORKTWN	230	I	LN	164.1	541.0	135.8	2456	D:6BENCHRC-6NP NEWS1 +6SURY -6POOLSVL1
314214	6CHCKRAHM	230	314390	6LIGH285	230	I	LN	418.8	830.0	135.6	2456	D:6BENCHRC-6NP NEWS1 +6SURY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	70.0	103.0	135.2	2593	D:6BENCHRC-6CHCKTUK1 +6LIGH209-6WALR2091
314386	6KINGS M	230	314423	6YORKTWN	230	I	LN	164.1	541.0	135.2	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	134.9	2592	D:6BENCHRC-6CHCKTUK1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	70.0	103.0	134.6	21395	D:6LIGH285-6WALR2851 +6LIGH209-6WALR2091
314214	6CHCKRAHM	230	314390	6LIGH285	230	I	LN	418.8	830.0	133.9	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	133.8	16864	D:6DENBIGH-6WALR2851 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	71.6	103.0	133.7	20837	D:6LANEXA -6LIGH2091 +6SURY -6POOLSVL1
314386	6KINGS M	230	314423	6YORKTWN	230	I	LN	164.1	541.0	133.6	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	137.3	70.0	103.0	133.3	2592	D:6BENCHRC-6CHCKTUK1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	137.1	71.6	103.0	133.1	2282	D:6BENCHRC-6NP NEWS1 +6LIGH209-6WALR2091
314188	3WEST PT	115	314387 3LANEXA	115	1	LN	364.3	50.8	275.0	132.5	8583	D:6HAYES -6YORKTWN1 +6CORRECTN-6LANEXA 1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	136.3	71.6	103.0	132.4	20692	D:6LANEXA -6LIGH2091 +6WINCHST-6POOLSVL1
314188	3WEST PT	115	314387 3LANEXA	115	1	LN	363.8	50.8	275.0	132.3	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	136.2	70.0	103.0	132.3	16864	D:6DENBIGH-6WALR2851 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	136.1	70.0	103.0	132.2	20837	D:6LANEXA -6LIGH2091 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	135.4	70.0	103.0	131.5	2282	D:6BENCHRC-6NP NEWS1 +6LIGH209-6WALR2091
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	134.9	57.2	103.0	131.0	23944	D:6PEMBROK-6SHELBNK1 +6SURREY -6POOLSVL1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	134.8	57.2	103.0	130.9	23477	D:6NP NEWS-6PEMBROK1 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	134.7	70.0	103.0	130.8	20692	D:6LANEXA -6LIGH2091 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	134.6	71.6	103.0	130.7	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	134.4	71.6	103.0	130.5	2614	D:6BENCHRC-6CHCKTUK1 +6TABB -6YORKTWN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	133.7	71.6	103.0	129.8	19918	D:3LANEXA -3NNNEWS581 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	133.7	71.6	103.0	129.8	20669	D:6LANEXA -6LIGH2091 +3NNNEWS58-3TOANO581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	132.9	70.0	103.0	129.0	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314384	3KINGS M	115	314411 3TOANO58	115	1	LN	217.9	74.6	169.0	129.0	2767	D:6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	132.7	70.0	103.0	128.8	2614	D:6BENCHRC-6CHCKTUK1 +6TABB -6YORKTWN1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	132.7	57.2	103.0	128.8	23799	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVL1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	132.6	57.2	103.0	128.7	23332	D:6NP NEWS-6PEMBROK1 +6WINCHST-6POOLSVL1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	132.3	57.2	103.0	128.4	2589	D:6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	132.2	57.2	103.0	128.4	20662	D:6LANEXA -6LIGH2091 +6LIGH285-6WALR2851
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	132.1	70.0	103.0	128.3	19918	D:3LANEXA -3NNNEWS581 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	132.1	70.0	103.0	128.3	20669	D:6LANEXA -6LIGH2091 +3NNNEWS58-3TOANO581
314384	3KINGS M	115	314411 3TOANO58	115	1	LN	216.1	74.6	169.0	127.9	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	131.7	71.6	103.0	127.9	20670	D:6LANEXA -6LIGH2091 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	131.8	71.6	103.0	127.9	20672	D:6LANEXA -6LIGH2091 +6PEMBROK-6SHELBNK1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	131.4	57.2	103.0	127.5	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	131.2	71.6	103.0	127.4	21811	D:6LIGH209-6WALR2091 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	131.1	71.6	103.0	127.3	16868	D:6DENBIGH-6WALR2851 +6LIGH209-6WALR2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	130.1	70.0	103.0	126.3	20670	D:6LANEXA -6LIGH2091 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	130.1	70.0	103.0	126.3	20672	D:6LANEXA -6LIGH2091 +6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	129.9	71.6	103.0	126.1	21666	D:6LIGH209-6WALR2091 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	129.8	71.6	103.0	126.0	13669	D:6PENNIMA-6WALR2091 +6LIGH285-6WALR2851
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	129.6	70.0	103.0	125.8	21811	D:6LIGH209-6WALR2091 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	129.5	70.0	103.0	125.7	16868	D:6DENBIGH-6WALR2851 +6LIGH209-6WALR2091
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	129.4	71.6	103.0	125.6	2562	D:6BENCHRC-6CHCKTUK1 +6PENNIMA-6WALR2091
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	129.0	71.6	103.0	125.3	2586	D:6BENCHRC-6CHCKTUK1 +3LANEXA -3NNNEWS581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	129.0	71.6	103.0	125.3	2599	D:6BENCHRC-6CHCKTUK1 +3NNNEWS58-3TOANO581
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	128.6	57.2	103.0	124.8	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	128.3	70.0	103.0	124.6	21666	D:6LIGH209-6WALR2091 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	128.2	70.0	103.0	124.5	13669	D:6PENNIMA-6WALR2091 +6LIGH285-6WALR2851

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	128.2	71.6	103.0	124.4	17124	D:6DENBIGH-6YORKTWN1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	128.1	71.6	103.0	124.3	19922	D:3LANEXA -3NNWS581 +6LIGH209-6WALR2091
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	128.1	71.6	103.0	124.3	21643	D:6LIGH209-6WALR2091 +3NNWS58-3TOAN0581
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	127.8	70.0	103.0	124.0	2562	D:6BENCHRC-6CHCKTUK1 +6PENNIMA-6WALR2091
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	127.7	71.6	103.0	124.0	2574	D:6BENCHRC-6CHCKTUK1 +6DENBIGH-6WALR2851
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	127.7	71.6	103.0	123.9	13396	D:6PENNIMA-6KINGS M1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	127.5	71.6	103.0	123.8	2561	D:6BENCHRC-6CHCKTUK1 +6PENNIMA-6KINGS M1
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	127.4	70.0	103.0	123.7	2586	D:6BENCHRC-6CHCKTUK1 +3LANEXA -3NNWS581
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	127.4	70.0	103.0	123.7	2599	D:6BENCHRC-6CHCKTUK1 +3NNWS58-3TOAN0581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	126.6	71.6	103.0	122.9	2275	D:6BENCHRC-6NP NEWS1 +3LANEXA -3NNWS581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	126.6	71.6	103.0	122.9	2288	D:6BENCHRC-6NP NEWS1 +3NNWS58-3TOAN0581
314387	3LANEXA	115	314388 6LANEXA	230	1	TR	246.8	93.9	200.8	122.9	8561	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRCTN1
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	126.6	70.0	103.0	122.9	17124	D:6DENBIGH-6YORKTWN1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	126.5	70.0	103.0	122.8	19922	D:3LANEXA -3NNWS581 +6LIGH209-6WALR2091
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	126.5	70.0	103.0	122.8	21643	D:6LIGH209-6WALR2091 +3NNWS58-3TOAN0581
314388	6LANEXA	230	314391 6LIGH209	230	1	LN	995.9	331.4	812.0	122.7	2767	D:6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314387	3LANEXA	115	314388 6LANEXA	230	1	TR	246.3	93.9	200.8	122.7	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRCTN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	126.3	71.6	103.0	122.7	21569	D:6LIGH285-6WALR2851 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	126.0	57.2	103.0	122.6	2251	D:6BENCHRC-6NP NEWS1 +6PENNIMA-6WALR2091
314390	6LIGH285	230	314413 6WALR285	230	1	LN	1016.9	329.4	830.0	122.5	2767	D:6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	126.1	70.0	103.0	122.4	2574	D:6BENCHRC-6CHCKTUK1 +6DENBIGH-6WALR2851
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	126.1	70.0	103.0	122.4	13396	D:6PENNIMA-6KINGS M1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	126.0	71.6	103.0	122.3	2303	D:6BENCHRC-6NP NEWS1 +6TABB -6YORKTWN1
314378	3FEUS34	115	314381 3GRAFT34	115	1	LN	126.0	57.2	103.0	122.3	2309	D:6BENCHRC-6NP NEWS1 +6WHEALTN-6WINCHST1
314384	3KINGS M	115	314411 3TOAN058	115	1	LN	206.5	74.6	169.0	122.2	2456	D:6BENCHRC-6NP NEWS1 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	125.9	70.0	103.0	122.2	2561	D:6BENCHRC-6CHCKTUK1 +6PENNIMA-6KINGS M1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	125.6	71.6	103.0	122.0	19168	D:3KINGS M-3TOAN0581 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	125.7	71.6	103.0	122.0	23330	D:6NP NEWS-6PEMBROK1 +6WHEALTN-6WINCHST1
314378	3FEUS34	115	314381 3GRAFT34	115	1	LN	125.4	57.2	103.0	121.7	21395	D:6PEMBROK-6SHELBNK1 +6WHEALTN-6WINCHST1
314388	6LANEXA	230	314391 6LIGH209	230	1	LN	986.9	331.4	812.0	121.5	2456	D:6BENCHRC-6NP NEWS1 +6SURREY -6POOLSVL1
314388	6LANEXA	230	314391 6LIGH209	230	1	LN	985.7	331.4	812.0	121.4	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	125.0	71.6	103.0	121.4	20690	D:6LANEXA -6LIGH2091 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	125.0	71.6	103.0	121.4	21424	D:6LIGH285-6WALR2851 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	125.0	70.0	103.0	121.3	2275	D:6BENCHRC-6NP NEWS1 +3LANEXA -3NNWS581
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	125.0	70.0	103.0	121.3	2288	D:6BENCHRC-6NP NEWS1 +3NNWS58-3TOAN0581
314390	6LIGH285	230	314413 6WALR285	230	1	LN	1005.9	329.4	830.0	121.2	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	124.8	71.6	103.0	121.2	21644	D:6LIGH209-6WALR2091 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	124.8	71.6	103.0	121.2	21646	D:6LIGH209-6WALR2091 +6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	124.8	70.0	103.0	121.1	21569	D:6LIGH285-6WALR2851 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FEUS34	115	1	LN	124.6	70.0	103.0	121.0	2251	D:6BENCHRC-6NP NEWS1 +6PENNIMA-6WALR2091
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	124.6	71.6	103.0	121.0	2585	D:6BENCHRC-6CHCKTUK1 +6KINGS M-6YORKTWN1

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	124.6	57.2	103.0	121.0	D:6BENCHRC-6CHCKTUK1 +6LIGH209-6WALR2091
314384	3KINGS M	115	314411	3TOANO58	115	1	LN	204.3	74.6	169.0	120.9	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	124.5	71.6	103.0	120.8	D:6KINGS M-6YORKTWN1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	124.3	71.6	103.0	120.7	D:6BENCHRC-6NP NEWS1 +6PENNIMA-6KINGS M1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	124.3	71.6	103.0	120.6	D:6BENCHRC-6NP NEWS1 +6DENBIGH-6WALR2851
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	124.2	70.0	103.0	120.6	D:6BENCHRC-6NP NEWS1 +6TABB -6YORKTWN1
314390	6LIGH285	230	314413	6WALR285	230	1	LN	1001.2	329.4	830.0	120.6	D:6BENCHRC-6NP NEWS1 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	124.1	70.0	103.0	120.5	D:3KINGS M-3TOANO581 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	124.0	70.0	103.0	120.4	D:6NP NEWS-6PEMBROK1 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	124.0	70.0	103.0	120.4	D:6PEMBROK-6SHELBK1 +6WHEALTN-6WINCHST1
314188	3WEST PT	115	314387	3LANEXA	115	1	LN	330.2	50.8	275.0	120.1	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRCTN1
314388	6LANEXA	230	314391	6LIGH209	230	1	LN	973.8	331.4	812.0	119.9	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	123.5	70.0	103.0	119.9	D:6LANEXA -6LIGH2091 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	123.5	70.0	103.0	119.9	D:6LIGH285-6WALR2851 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	123.3	71.6	103.0	119.7	D:3LANEXA -3NNWS581 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	123.3	71.6	103.0	119.7	D:3NNWS58-3TOANO581 +6SURREY -6POOLSVL1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	123.2	57.2	103.0	119.6	D:6DENBIGH-6WALR2851 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	123.2	70.0	103.0	119.6	D:6LIGH209-6WALR2091 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	123.2	70.0	103.0	119.6	D:6LIGH209-6WALR2091 +6PEMBROK-6SHELBK1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	122.9	70.0	103.0	119.4	D:6BENCHRC-6CHCKTUK1 +6KINGS M-6YORKTWN1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	122.9	70.0	103.0	119.3	D:6KINGS M-6YORKTWN1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	122.7	70.0	103.0	119.1	D:6BENCHRC-6NP NEWS1 +6PENNIMA-6KINGS M1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	122.6	70.0	103.0	119.1	D:6BENCHRC-6NP NEWS1 +6DENBIGH-6WALR2851
314390	6LIGH285	230	314413	6WALR285	230	1	LN	987.8	329.4	830.0	119.0	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314188	3WEST PT	115	314387	3LANEXA	115	1	LN	326.9	50.8	275.0	118.9	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRCTN1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	122.3	71.6	103.0	118.7	D:3LANEXA -3NNWS581 +6WINCHST-6POOLSVL1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	122.3	57.2	103.0	118.7	D:6LANEXA -6LIGH2091 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	122.3	71.6	103.0	118.7	D:3NNWS58-3TOANO581 +6WINCHST-6POOLSVL1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	122.2	57.2	103.0	118.6	D:6BENCHRC-6CHCKTUK1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	122.1	71.6	103.0	118.6	D:6BENCHRC-6NP NEWS1 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	122.1	71.6	103.0	118.5	D:6PENNIMA-6WALR2091 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	121.7	70.0	103.0	118.2	D:3LANEXA -3NNWS581 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	121.7	70.0	103.0	118.2	D:3NNWS58-3TOANO581 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	121.6	71.6	103.0	118.1	D:6DENBIGH-6YORKTWN1 +6LIGH209-6WALR2091
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	121.6	71.6	103.0	118.0	D:6LIGH285-6WALR2851 +6PEMBROK-6SHELBK1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	121.4	71.6	103.0	117.9	D:6BENCHRC-6NP NEWS1 +6KINGS M-6YORKTWN1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	121.3	71.6	103.0	117.8	D:3LANEXA -3NNWS581 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	121.3	71.6	103.0	117.8	D:6LIGH285-6WALR2851 +3NNWS58-3TOANO581
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	121.0	57.2	103.0	117.5	D:6BENCHRC-6NP NEWS1 +6LIGH209-6WALR2091
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	120.9	71.6	103.0	117.4	D:6PENNIMA-6WALR2091 +6DENBIGH-6WALR2851
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	120.9	57.2	103.0	117.4	D:6LANEXA -6LIGH2091 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	120.8	71.6	103.0	117.3	D:6BENCHRC-6CHCKTUK1 +3KINGS M-3TOANO581

**	From bus	**	To bus	**	CKT	Type	ContbMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	120.8	71.6	103.0	117.3	13699	D:6PENNIMA-6WALR2091 +6WINCHST-6POOLSVLI
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	120.7	70.0	103.0	117.2	19951	D:3LANEXA -3NNWS581 +6WINCHST-6POOLSVLI
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	120.7	70.0	103.0	117.2	23097	D:3NNWS58-3TOANO581 +6WINCHST-6POOLSVLI
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	120.5	70.0	103.0	117.0	13844	D:6PENNIMA-6WALR2091 +6SURY -6POOLSVLI
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	120.5	70.0	103.0	116.9	21402	D:6LIGH285-6WALR2851 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	120.3	71.6	103.0	116.8	13571	D:6PENNIMA-6KINGS MI +6SURY -6POOLSVLI
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	120.1	71.6	103.0	116.6	19172	D:3KINGS M-3TOANO581 +6LIGH209-6WALR2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	120.0	70.0	103.0	116.5	17128	D:6DENBIGH-6YORKTWN1 +6LIGH209-6WALR2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	119.9	70.0	103.0	116.4	21404	D:6LIGH285-6WALR2851 +6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	119.8	70.0	103.0	116.3	2274	D:6BENCHRC-6NP NEWS1 +6KINGS M-6YORKTWN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	119.8	71.6	103.0	116.3	2609	D:6BENCHRC-6CHCKTUK1 +6PENINSI-6TABB 1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	119.8	70.0	103.0	116.3	19921	D:3LANEXA -3NNWS581 +6LIGH285-6WALR2851
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	119.8	70.0	103.0	116.3	21401	D:6LIGH285-6WALR2851 +3NNWS58-3TOANO581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	119.5	71.6	103.0	116.0	13663	D:6PENNIMA-6WALR2091 +3LANEXA -3NNWS581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	119.5	71.6	103.0	116.0	13676	D:6PENNIMA-6WALR2091 +3NNWS58-3TOANO581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	119.3	70.0	103.0	115.8	13651	D:6PENNIMA-6WALR2091 +6DENBIGH-6WALR2851
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	119.3	70.0	103.0	115.8	13699	D:6PENNIMA-6WALR2091 +6WINCHST-6POOLSVLI
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	119.3	71.6	103.0	115.8	21664	D:6LIGH209-6WALR2091 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	119.2	70.0	103.0	115.7	2583	D:6BENCHRC-6CHCKTUK1 +3KINGS M-3TOANO581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	119.1	71.6	103.0	115.6	13426	D:6PENNIMA-6KINGS MI +6WINCHST-6POOLSVLI
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	119.1	71.6	103.0	115.6	17042	D:6DENBIGH-6WALR2851 +6SURY -6POOLSVLI
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	118.9	71.6	103.0	115.4	13378	D:6PENNIMA-6KINGS MI +6DENBIGH-6WALR2851
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	118.9	57.2	103.0	115.4	19918	D:3LANEXA -3NNWS581 +6LANEXA -6LIGH2091
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	118.9	57.2	103.0	115.4	20669	D:6LANEXA -6LIGH2091 +3NNWS58-3TOANO581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	118.8	70.0	103.0	115.3	13571	D:6PENNIMA-6KINGS MI +6SURY -6POOLSVLI
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	118.5	70.0	103.0	115.0	19172	D:3KINGS M-3TOANO581 +6LIGH209-6WALR2091
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	118.3	71.6	103.0	114.8	2575	D:6BENCHRC-6CHCKTUK1 +6DENBIGH-6YORKTWN1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	118.1	57.2	103.0	114.7	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	118.1	70.0	103.0	114.7	2609	D:6BENCHRC-6CHCKTUK1 +6PENINSI-6TABB 1
314421	6WINCHST	230	314540 6POOLSVL	230	1	LN	744.7	398.7	650.0	114.6	2592	D:6BENCHRC-6CHCKTUK1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	117.9	71.6	103.0	114.5	2272	D:6BENCHRC-6NP NEWS1 +3KINGS M-3TOANO581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	117.9	70.0	103.0	114.5	13663	D:6PENNIMA-6WALR2091 +3LANEXA -3NNWS581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	117.9	70.0	103.0	114.5	13676	D:6PENNIMA-6WALR2091 +3NNWS58-3TOANO581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	117.8	71.6	103.0	114.4	13390	D:6PENNIMA-6KINGS MI +3LANEXA -3NNWS581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	117.8	71.6	103.0	114.4	13403	D:6PENNIMA-6KINGS MI +3NNWS58-3TOANO581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	117.8	71.6	103.0	114.4	16897	D:6DENBIGH-6WALR2851 +6WINCHST-6POOLSVLI
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	117.7	71.6	103.0	114.3	19847	D:6KINGS M-6YORKTWN1 +6SURY -6POOLSVLI
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	117.7	70.0	103.0	114.2	21664	D:6LIGH209-6WALR2091 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	117.6	70.0	103.0	114.1	13426	D:6PENNIMA-6KINGS MI +6WINCHST-6POOLSVLI
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	117.5	70.0	103.0	114.1	17042	D:6DENBIGH-6WALR2851 +6SURY -6POOLSVLI
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	117.2	70.0	103.0	113.8	13378	D:6PENNIMA-6KINGS MI +6DENBIGH-6WALR2851
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	117.0	71.6	103.0	113.6	19929	D:3LANEXA -3NNWS581 +6NP NEWS-6PEMBROK1

**	From bus	**	To bus	**	CKT	Type	ContkVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	117.0	71.6	103.0	113.6	19931	D: 3LANEXA - 3NNWS581 + 6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	117.0	71.6	103.0	113.6	23075	D: 3NNWS58-3TOANO581 + 6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	117.1	71.6	103.0	113.6	23077	D: 3NNWS58-3TOANO581 + 6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	116.7	70.0	103.0	113.3	2575	D: 6BENCHRC-6CHCKTUK1 + 6DENBIGH-6YORKTWN1
314391	6LIGH209	230	314415 6WALR209	230	1	LN	612.8	280.3	541.0	113.3	2592	D: 6BENCHRC-6CHCKTUK1 + 6LIGH285-6WALR2851
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	116.7	57.2	103.0	113.3	16868	D: 6DENBIGH-6WALR2851 + 6LIGH209-6WALR2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	116.3	70.0	103.0	113.0	2272	D: 6BENCHRC-6NP NEWS1 + 3KINGS M-3TOANO581
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	116.3	57.2	103.0	113.0	2614	D: 6BENCHRC-6CHCKTUK1 + 6YORKTWN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	116.4	71.6	103.0	113.0	19702	D: 6KINGS M-6YORKTWN1 + 6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	116.3	70.0	103.0	112.9	16897	D: 6DENBIGH-6WALR2851 + 6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	116.2	70.0	103.0	112.8	13390	D: 6PENNIMA-6KINGS M1 + 3LANEXA - 3NNWS581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	116.2	70.0	103.0	112.8	13403	D: 6PENNIMA-6KINGS M1 + 3NNWS58-3TOANO581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	116.2	70.0	103.0	112.8	19847	D: 6KINGS M-6YORKTWN1 + 6SURREY - 6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	116.1	71.6	103.0	112.7	19346	D: 6KINGS M-3TOANO581 + 6SURREY - 6POOLSVL1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	116.1	57.2	103.0	112.7	21811	D: 6LIGH209-6WALR2091 + 6SURREY - 6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	115.8	71.6	103.0	112.4	16860	D: 6DENBIGH-6WALR2851 + 6KINGS M-6YORKTWN1
313818	6BENCHRC	230	314522 6CHCKTUK	230	1	LN	755.2	389.2	672.0	112.4	21569	D: 6LIGH285-6WALR2851 + 6SURREY - 6POOLSVL1
314421	6WINCHST	230	314540 6POOLSVL	230	1	LN	729.6	398.7	650.0	112.2	25899	D: 6BENCHRC-6CHCKTUK1 + 6LANEXA - 6LIGH2091
313812	6ROCKLANDING	230	314423 6YORKTWN	230	1	LN	606.4	60.6	541.0	112.1	2767	D: 6BENCHRC-6CHCKTUK1 + 6SURREY - 6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	115.4	70.0	103.0	112.1	19931	D: 3LANEXA - 3NNWS581 + 6PEMBROK-6SHELBNK1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	115.4	57.2	103.0	112.1	20670	D: 6LANEXA - 6LIGH2091 + 6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314381 3GRAFT34	115	1	LN	115.5	57.2	103.0	112.1	20672	D: 6LANEXA - 6LIGH2091 + 6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	115.4	70.0	103.0	112.1	23077	D: 3NNWS58-3TOANO581 + 6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	115.3	71.6	103.0	112.0	2298	D: 6BENCHRC-6NP NEWS1 + 6PENINSI-6TABB 1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	115.4	70.0	103.0	112.0	19929	D: 3LANEXA - 3NNWS581 + 6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	115.4	70.0	103.0	112.0	23075	D: 3NNWS58-3TOANO581 + 6NP NEWS-6PEMBROK1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	115.2	57.2	103.0	111.8	13669	D: 6PENNIMA-6WALR2091 + 6LIGH285-6WALR2851
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	115.1	71.6	103.0	111.8	19666	D: 6KINGS M-6YORKTWN1 + 3LANEXA - 3NNWS581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	115.1	71.6	103.0	111.8	19679	D: 6KINGS M-6YORKTWN1 + 3NNWS58-3TOANO581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	115.2	71.6	103.0	111.8	20840	D: 6LANEXA - 6LIGH2091 + 6SURREY - 6YORKTWN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	115.1	71.6	103.0	111.7	2264	D: 6BENCHRC-6NP NEWS1 + 6DENBIGH-6YORKTWN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	115.1	71.6	103.0	111.7	19201	D: 3KINGS M-3TOANO581 + 6WINCHST-6POOLSVL1
314421	6WINCHST	230	314540 6POOLSVL	230	1	LN	725.5	398.7	650.0	111.6	2281	D: 6BENCHRC-6NP NEWS1 + 6LIGH285-6WALR2851
313812	6ROCKLANDING	230	314423 6YORKTWN	230	1	LN	603.5	60.6	541.0	111.6	2456	D: 6BENCHRC-6NP NEWS1 + 6SURREY - 6POOLSVL1
314417	3WHEALT	115	314418 6WHEALT	230	2	TR	322.3	102.5	289.0	111.5	2303	D: 6BENCHRC-6NP NEWS1 + 6TABB - 6YORKTWN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	114.9	71.6	103.0	111.5	16861	D: 6DENBIGH-6WALR2851 + 3LANEXA - 3NNWS581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	114.9	71.6	103.0	111.5	16874	D: 6DENBIGH-6WALR2851 + 3NNWS58-3TOANO581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	114.8	71.6	103.0	111.5	19419	D: 3KINGS M-3YNNWS 581 + 6LANEXA - 6LIGH2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	114.9	70.0	103.0	111.5	19702	D: 6KINGS M-6YORKTWN1 + 6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	114.7	71.6	103.0	111.4	13677	D: 6PENNIMA-6WALR2091 + 6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	114.7	71.6	103.0	111.4	13679	D: 6PENNIMA-6WALR2091 + 6PEMBROK-6SHELBNK1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	114.8	57.2	103.0	111.4	21666	D: 6LIGH209-6WALR2091 + 6WINCHST-6POOLSVL1

**	From bus	**	To bus	** CRT	Type	ContbVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
313828	3WHITEMARSH	115	314174 3HARMONY	115	1	LN	231.4	10.7	208.0	111.3	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	114.7	71.6	103.0	111.3	D:6LIGH285-6WALR2851 +6WHEALTN-6WINCHST1
314391	6LIGH209	230	314415 6WALR209	230	1	LN	601.9	280.3	541.0	111.3	D:6NP NEWS-6PEMBROK1 +6SURREY -6POOLSVL1
314391	6LIGH209	230	314415 6WALR209	230	1	LN	602.2	280.3	541.0	111.3	D:6PEMBROK-6SHELBK1 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	114.5	70.0	103.0	111.2	D:3KINGS M-3TOANO581 +6SURREY -6POOLSVL1
313818	6BENCHRCH	230	314522 6CHCKTUK	230	1	LN	746.6	389.2	672.0	111.1	D:6LIGH285-6WALR2851 +6WINCHST-6POOLSVL1
314401	3PENINS1	115	314412 3U CARBD	115	1	LN	150.8	21.2	136.0	110.9	D:6BENCHRCH-6CHCKTUK1 +6TABB -6YORKTWN1
314412	3U CARBD	115	314417 3WHEALTN	115	1	LN	150.8	21.2	136.0	110.9	D:6BENCHRCH-6CHCKTUK1 +6TABB -6YORKTWN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	114.3	71.6	103.0	110.9	D:3LANEXA -3NNWS581 +3YORKTWN-3YORK PSI
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	114.3	71.6	103.0	110.9	D:3LANEXA -3NNWS581 +6YORKTWN-3YORK PSI
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	114.3	71.6	103.0	110.9	D:3NNWS58-3TOANO581 +3YORKTWN-3YORK PSI
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	114.3	71.6	103.0	110.9	D:3NNWS58-3TOANO581 +6YORKTWN-3YORK PSI
314391	6LIGH209	230	314415 6WALR209	230	1	LN	599.2	280.3	541.0	110.8	D:6BENCHRCH-6NP NEWS1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	114.2	70.0	103.0	110.8	D:6DENBIGH-6WALR2851 +6KINGS M-6YORKTWN1
313828	3WHITEMARSH	115	314177 3HAYES89	115	1	LN	230.1	10.2	208.0	110.6	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	113.8	57.2	103.0	110.5	D:6DENBIGH-6YORKTWN1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	113.7	71.6	103.0	110.4	D:3KINGS M-3TOANO581 +6LIGH285-6WALR2851
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.7	70.0	103.0	110.3	D:6BENCHRCH-6NP NEWS1 +6PENINS1-6TABB 1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	113.6	57.2	103.0	110.3	D:6BENCHRCH-6CHCKTUK1 +6PENNIMA-6WALR2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.6	70.0	103.0	110.3	D:6KINGS M-6YORKTWN1 +3LANEXA -3NNWS581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.6	70.0	103.0	110.3	D:6KINGS M-6YORKTWN1 +3NNWS58-3TOANO581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	113.6	71.6	103.0	110.3	D:3LANEXA -3NNWS581 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.6	70.0	103.0	110.3	D:6LANEXA -6LIGH2091 +6SURREY -1SURREY 11
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	113.6	71.6	103.0	110.3	D:3NNWS58-3TOANO581 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.5	70.0	103.0	110.2	D:6BENCHRCH-6NP NEWS1 +6DENBIGH-6YORKTWN1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.5	70.0	103.0	110.2	D:3KINGS M-3TOANO581 +6WINCHST-6POOLSVL1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	113.3	57.2	103.0	110.0	D:6BENCHRCH-6CHCKTUK1 +3LANEXA -3NNWS581
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	113.3	57.2	103.0	110.0	D:6BENCHRCH-6CHCKTUK1 +3NNWS58-3TOANO581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.3	70.0	103.0	110.0	D:6DENBIGH-6WALR2851 +3LANEXA -3NNWS581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.3	70.0	103.0	110.0	D:6DENBIGH-6WALR2851 +3NNWS58-3TOANO581
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	113.3	57.2	103.0	110.0	D:3LANEXA -3NNWS581 +6LIGH209-6WALR2091
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	113.3	57.2	103.0	110.0	D:6LIGH209-6WALR2091 +3NNWS58-3TOANO581
314417	3WHEALTN	115	314418 6WHEALTN	230	2	TR	317.7	102.5	289.0	109.9	D:6BENCHRCH-6CHCKTUK1 +6TABB -6YORKTWN1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	113.2	57.2	103.0	109.9	D:6PENNIMA-6WALR2091 +6LIGH285-6WALR2851
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.2	70.0	103.0	109.9	D:3KINGS M-3YNS 581 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.1	70.0	103.0	109.8	D:6PENNIMA-6WALR2091 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.1	70.0	103.0	109.8	D:6PENNIMA-6WALR2091 +6PEMBROK-6SHELBK1
313818	6BENCHRCH	230	314522 6CHCKTUK	230	1	LN	737.8	389.2	672.0	109.8	D:6PENNIMA-6LIGH2091 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	113.1	70.0	103.0	109.8	D:6LIGH285-6WALR2851 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	113.0	71.6	103.0	109.7	D:6DENBIGH-6WALR2851 +6PEMBROK-6SHELBK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	112.9	71.6	103.0	109.7	D:6LANEXA -6LIGH2091 +3LEBAN58-3YNS 581
314398	6NP NEWS	230	314399 6PEMBROK	230	1	LN	602.4	249.7	549.0	109.7	D:6LIGH285-6WALR2851 +6SURREY -6POOLSVL1

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314399	6PEMBROK	230	314407	6SHELBNK	230	I	LN	602.5	249.9	549.0	109.7	D:6LIGH285-6WALR2851 +6SURY -6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	112.9	71.6	103.0	109.6	D:6PENNIMA-6KINGS M1 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	112.9	71.6	103.0	109.6	D:6DENBIGH-6WALR2851 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	112.8	71.6	103.0	109.5	D:6PENNIMA-6KINGS M1 +6PEMBROK-6SHELBNK1
314449	6CHESAPK	230	314514	6YADKIN	230	I	LN	908.6	545.1	830.0	109.5	D:6THRS279-6YADKIN 1 +8FENTRES-8YADKIN 1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	112.7	70.0	103.0	109.4	D:3LANEXA -3NNWS581 +3YORKTWN-3YORK PSI
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	112.7	70.0	103.0	109.4	D:3LANEXA -3NNWS581 +6YORKTWN-3YORK PSI
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	112.7	70.0	103.0	109.4	D:3NNWS58-3TOANO581 +3YORKTWN-3YORK PSI
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	112.7	70.0	103.0	109.4	D:3NNWS58-3TOANO581 +6YORKTWN-3YORK PSI
314391	6LIGH209	230	314415	6WALR209	230	I	LN	591.8	280.3	541.0	109.4	D:6NP NEWS-6PEMBROK1 +6WINCHST-6POOLSVL1
314391	6LIGH209	230	314415	6WALR209	230	I	LN	592.0	280.3	541.0	109.4	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVL1
314421	6WINCHST	230	314540	6POOLSVL	230	I	LN	710.1	398.7	650.0	109.2	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314391	6LIGH209	230	314415	6WALR209	230	I	LN	590.7	280.3	541.0	109.2	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	112.1	70.0	103.0	108.9	D:3KINGS M-3TOANO581 +6LIGH285-6WALR2851
313812	6ROCKLANDING	230	314423	6YORKTWN	230	I	LN	588.2	60.6	541.0	108.7	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	112.0	70.0	103.0	108.7	D:3LANEXA -3NNWS581 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	112.0	70.0	103.0	108.7	D:3NNWS58-3TOANO581 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314381	3GRAFT34	115	I	LN	111.7	57.2	103.0	108.5	D:6BENCHRC-6CHCKTUK1 +6PENNIMA-6KINGS M1
313818	6BENCHRC	230	314522	6CHCKTUK	230	I	LN	729.2	399.2	672.0	108.5	D:6LANEXA -6LIGH2091 +6WINCHST-6POOLSVL1
314378	3FTEUS34	115	314381	3GRAFT34	115	I	LN	111.7	57.2	103.0	108.4	D:6BENCHRC-6CHCKTUK1 +6DENBIGH-6WALR2851
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	111.6	71.6	103.0	108.3	D:6PENNIMA-6WALR2091 +6DENBIGH-6YORKTWN1
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	111.5	71.6	103.0	108.3	D:6PENNIMA-6WALR2091 +3KINGS M-3TOANO581
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	111.6	71.6	103.0	108.3	D:6DENBIGH-6YORKTWN1 +6SURY -6POOLSVL1
314398	6NP NEWS	230	314399	6PEMBROK	230	I	LN	594.5	249.7	549.0	108.3	D:6LIGH285-6WALR2851 +6WINCHST-6POOLSVL1
314399	6PEMBROK	230	314407	6SHELBNK	230	I	LN	594.7	249.9	549.0	108.3	D:6LIGH285-6WALR2851 +6WINCHST-6POOLSVL1
313818	6BENCHRC	230	314398	6NP NEWS	230	I	LN	727.6	362.4	672.0	108.3	D:6LIGH285-6WALR2851 +6SURY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	111.3	70.0	103.0	108.1	D:6DENBIGH-6WALR2851 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	111.3	70.0	103.0	108.1	D:6DENBIGH-6WALR2851 +6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	111.4	70.0	103.0	108.1	D:6LANEXA -6LIGH2091 +3LEBAN58-3YWS 581
314406	3SHELBNK	115	314407	6SHELBNK	230	I	TR	290.2	126.4	268.6	108.0	D:6ROCKLAN-6YORKTWN1 +6SURY -6POOLSVL1
314421	6WINCHST	230	314540	6POOLSVL	230	I	LN	702.3	398.7	650.0	108.0	D:6BENCHRC-6CHCKTUK1 +6LIGH209-6WALR2091
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	111.2	70.0	103.0	108.0	D:6PENNIMA-6KINGS M1 +6NP NEWS-6PEMBROK1
314387	3LANEXA	115	314388	6LANEXA	230	I	TR	216.8	93.9	200.8	108.0	D:6CORRCTN-6LANEXA 1 +3LANEXA -6LANEXA 2
313812	6ROCKLANDING	230	314423	6YORKTWN	230	I	LN	583.5	60.6	541.0	107.9	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	I	LN	111.2	70.0	103.0	107.9	D:6PENNIMA-6KINGS M1 +6PEMBROK-6SHELBNK1
314378	3FTEUS34	115	314381	3GRAFT34	115	I	LN	111.1	57.2	103.0	107.9	D:6LIGH285-6WALR2851 +6SURY -6POOLSVL1
314378	3FTEUS34	115	314381	3GRAFT34	115	I	LN	110.9	57.2	103.0	107.7	D:6BENCHRC-6NP NEWS1 +3LANEXA -3NNWS581
314378	3FTEUS34	115	314381	3GRAFT34	115	I	LN	110.9	57.2	103.0	107.7	D:6BENCHRC-6NP NEWS1 +3NNWS58-3TOANO581
314378	3FTEUS34	115	314381	3GRAFT34	115	I	LN	110.9	57.2	103.0	107.7	D:3KINGS M-3TOANO581 +6LANEXA -6LIGH2091
314421	6WINCHST	230	314540	6POOLSVL	230	I	LN	699.5	398.7	650.0	107.6	D:6BENCHRC-6CHCKTUK1 +6DENBIGH-6WALR2851
314377	3DOW 34	115	314387	3LANEXA	115	I	LN	110.7	71.6	103.0	107.5	D:6PENNIMA-6WALR2091 +6WHEALTN-6WINCHST1
314378	3FTEUS34	115	314381	3GRAFT34	115	I	LN	110.6	57.2	103.0	107.4	D:6BENCHRC-6NP NEWS1 +6PENNIMA-6WALR2091

**	From bus	**	To bus	**	CKT	Type	ContkVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	110.6	71.6	103.0	107.4	21814	D:6LIGH209-6WALR2091 +6SURY -1SURY 11
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	110.4	71.6	103.0	107.2	17157	D:6DENBIGH-6YORKTWN1 +6WINCHST-6POOLSVL1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	110.3	57.2	103.0	107.1	20690	D:6LANEXA -6LIGH2091 +6WHEALTN-6WINCHST1
313818	6BENCHRC	230	314398 6NP NEWS	230	1	LN	719.1	362.4	672.0	107.0	21424	D:6LIGH285-6WALR2851 +6WINCHST-6POOLSVL1
314391	6LIGH209	230	314415 6WALR209	230	1	LN	578.7	280.3	541.0	107.0	21569	D:6LIGH285-6WALR2851 +6SURY -6POOLSVL1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	110.1	57.2	103.0	106.9	19672	D:6KINGS M-6YORKTWN1 +6LIGH285-6WALR2851
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	110.0	70.0	103.0	106.8	17302	D:6DENBIGH-6YORKTWN1 +6SURY -6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	110.0	71.6	103.0	106.8	19690	D:6KINGS M-6YORKTWN1 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	110.1	71.6	103.0	106.8	19682	D:6KINGS M-6YORKTWN1 +6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	110.0	71.6	103.0	106.8	20099	D:3LANEXA -3NNWS581 +6SURY -1SURY 11
314398	6NP NEWS	230	314399 6PEMBROK	230	1	LN	586.5	249.7	549.0	106.8	20837	D:6LANEXA -6LIGH2091 +6SURY -6POOLSVL1
314399	6PEMBROK	230	314407 6SHELBNK	230	1	LN	586.6	249.9	549.0	106.8	20837	D:6LANEXA -6LIGH2091 +6SURY -6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	110.0	71.6	103.0	106.8	23245	D:3NNWS58-3TOANO581 +6SURY -1SURY 11
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	109.9	70.0	103.0	106.7	13652	D:6PENNIMA-6WALR2091 +6DENBIGH-6YORKTWN1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	109.9	70.0	103.0	106.7	13660	D:6PENNIMA-6WALR2091 +3KINGS M-3TOANO581
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	109.8	57.2	103.0	106.7	21424	D:6LIGH285-6WALR2851 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	109.8	71.6	103.0	106.6	13387	D:6PENNIMA-6KINGS M1 +3KINGS M-3TOANO581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	109.8	71.6	103.0	106.6	13387	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314406	3SHELBNK	115	314407 6SHELBNK	230	1	TR	284.7	126.4	268.6	106.0	1686	D:6ROCKLAN-6YORKTWN1 +6WINCHST-6POOLSVL1
313818	6BENCHRC	230	314522 6CHCKTUK	230	1	LN	712.4	389.2	672.0	106.0	21811	D:6LIGH209-6WALR2091 +6SURY -6POOLSVL1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	109.1	57.2	103.0	106.0	23330	D:6NP NEWS-6PEMBROK1 +6WHEALTN-6WINCHST1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	109.2	57.2	103.0	106.0	23797	D:6PEMBROK-6SHELBNK1 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	109.1	71.6	103.0	105.9	13424	D:6PENNIMA-6KINGS M1 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	109.1	70.0	103.0	105.9	13697	D:6PENNIMA-6WALR2091 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	109.0	70.0	103.0	105.9	21814	D:6LIGH209-6WALR2091 +6SURY -1SURY 11
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	108.9	71.6	103.0	105.8	19179	D:3KINGS M-3TOANO581 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	108.9	71.6	103.0	105.8	19181	D:3KINGS M-3TOANO581 +6PEMBROK-6SHELBNK1
314391	6LIGH209	230	314415 6WALR209	230	1	LN	572.5	280.3	541.0	105.8	21424	D:6LIGH285-6WALR2851 +6WINCHST-6POOLSVL1
313818	6BENCHRC	230	314398 6NP NEWS	230	1	LN	710.2	362.4	672.0	105.7	20837	D:6LANEXA -6LIGH2091 +6SURY -6POOLSVL1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	108.8	57.2	103.0	105.6	2585	D:6BENCHRC-6CHCKTUK1 +6KINGS M-6YORKTWN1
313818	6BENCHRC	230	314522 6CHCKTUK	230	1	LN	709.8	389.2	672.0	105.6	17042	D:6DENBIGH-6WALR2851 +6SURY -6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	108.8	70.0	103.0	105.6	17157	D:6DENBIGH-6YORKTWN1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	108.8	71.6	103.0	105.6	19423	D:3KINGS M-3YNNWS 581 +6LIGH209-6WALR2091
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	108.8	57.2	103.0	105.6	21644	D:6LIGH209-6WALR2091 +6NP NEWS-6PEMBROK1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	108.8	57.2	103.0	105.6	21646	D:6LIGH209-6WALR2091 +6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	108.7	71.6	103.0	105.5	1831	D:6ROCKLAN-6YORKTWN1 +6SURY -6POOLSVL1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	108.7	57.2	103.0	105.5	2250	D:6BENCHRC-6NP NEWS1 +6PENNIMA-6KINGS M1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	108.7	57.2	103.0	105.5	2303	D:6BENCHRC-6NP NEWS1 +6TABB -6YORKTWN1
314391	6LIGH209	230	314415 6WALR209	230	1	LN	570.9	280.3	541.0	105.5	2309	D:6BENCHRC-6NP NEWS1 +6WHEALTN-6WINCHST1

**	From bus	**	**	To bus	**	CKT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314449	6CHESAPK	230	314514	6VADKIN	230	1	LN	876.0	545.1	830.0	105.5	36745	D:6DOZIER -6ELIZ R 1 +6THRS279-6VADKIN 1
314449	6CHESAPK	230	314514	6VADKIN	230	1	LN	876.0	545.1	830.0	105.5	36913	D:6DOZIER -6GRENWCHI +6THRS279-6VADKIN 1
314421	6WINCHST	230	314540	6POOLSVL	230	1	LN	684.8	398.7	650.0	105.4	2282	D:6BENCHRC-6NP NEWS1 +6LIGH209-6WALR2091
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	108.6	71.6	103.0	105.4	17121	D:6DENBIGH-6YORKTWN1 +3LANEXA -3NNWS581
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	108.6	71.6	103.0	105.4	17134	D:6DENBIGH-6YORKTWN1 +3NNWS58-3TOANO581
314398	6NP NEWS	230	314399	6PEMBROK	230	1	LN	578.6	249.7	549.0	105.4	20692	D:6LANEXA -6LIGH2091 +6WINCHST-6POOLSVL1
314399	6PEMBROK	230	314407	6SHELBNK	230	1	LN	578.7	249.9	549.0	105.4	20692	D:6LANEXA -6LIGH2091 +6WINCHST-6POOLSVL1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	108.5	57.2	103.0	105.3	2263	D:6BENCHRC-6NP NEWS1 +6DENBIGH-6WALR2851
314376	6DENBIGH	230	314413	6WALR285	230	1	LN	873.6	257.3	830.0	105.3	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	108.4	70.0	103.0	105.3	19682	D:6KINGS M-6YORKTWN1 +6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	108.5	70.0	103.0	105.3	20099	D:3LANEXA -3NNWS581 +6SURY -1SURY 11
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	108.5	70.0	103.0	105.3	23245	D:3NNWS58-3TOANO581 +6SURY -1SURY 11
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	108.4	70.0	103.0	105.2	19680	D:6KINGS M-6YORKTWN1 +6NP NEWS-6PEMBROK1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	108.4	57.2	103.0	105.2	20096	D:3LANEXA -3NNWS581 +6SURY -6POOLSVL1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	108.4	57.2	103.0	105.2	23242	D:3NNWS58-3TOANO581 +6SURY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	108.2	70.0	103.0	105.1	13387	D:6PENNIMA-6KINGS M1 +3KINGS M-3TOANO581
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	108.1	71.6	103.0	105.0	23324	D:6NP NEWS-6PEMBROK1 +6TABB -6YORKTWN1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	108.1	71.6	103.0	105.0	23791	D:6PEMBROK-6SHELBNK1 +6TABB -6YORKTWN1
314421	6WINCHST	230	314540	6POOLSVL	230	1	LN	681.7	398.7	650.0	104.9	2263	D:6BENCHRC-6NP NEWS1 +6DENBIGH-6WALR2851
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	108.0	70.0	103.0	104.9	2584	D:6BENCHRC-6CHCKTUK1 +3KINGS M-3YNS 581
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	108.0	71.6	103.0	104.9	16895	D:6DENBIGH-6WALR2851 +6WHEALTN-6WINCHST1
314376	6DENBIGH	230	314413	6WALR285	230	1	LN	870.1	257.3	830.0	104.8	24566	D:6BENCHRC-6NP NEWS1 +6SURY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	108.0	70.0	103.0	104.8	13379	D:6PENNIMA-6KINGS M1 +6DENBIGH-6YORKTWN1
313818	6BENCHRC	230	314522	6CHCKTUK	230	1	LN	704.1	389.2	672.0	104.8	21666	D:6LIGH209-6WALR2091 +6WINCHST-6POOLSVL1
314207	6OAK GRE	230	314815	3OAK GRE	115	1	TR	301.4	102.6	287.5	104.8	50758	D:81DYSMT8-8NO ANNA1 +8MORRST-8NO ANNA1
314174	3HARMONY	115	314184	3SHACKLE	115	1	LN	334.1	24.1	319.0	104.7	8583	D:6HAYES -6YORKTWN1 +6CORRCTN-6LANEXA 1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	107.8	71.6	103.0	104.6	2591	D:6BENCHRC-6CHCKTUK1 +3LEBAN58-3YNS 581
314174	3HARMONY	115	314184	3SHACKLE	115	1	LN	333.7	24.1	319.0	104.6	8000	D:3HAYES89-6HAYES 1 +6CORRCTN-6LANEXA 1
314396	3NNWS58	115	314396	3NNWS58	115	1	LN	176.6	103.7	169.0	104.5	23477	D:6NP NEWS-6PEMBROK1 +6SURY -6POOLSVL1
314387	3LANEXA	115	314396	3NNWS58	115	1	LN	176.7	103.7	169.0	104.5	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVL1
314396	3NNWS58	115	314411	3TOANO58	115	1	LN	176.7	103.7	169.0	104.5	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVL1
314391	6LIGH209	230	314415	6WALR209	230	1	LN	564.5	280.3	541.0	104.4	2574	D:6BENCHRC-6CHCKTUK1 +6DENBIGH-6WALR2851
313818	6BENCHRC	230	314398	6NP NEWS	230	1	LN	701.6	362.4	672.0	104.4	20692	D:6LANEXA -6LIGH2091 +6WINCHST-6POOLSVL1
314387	3LANEXA	115	314388	6LANEXA	230	1	TR	209.4	93.9	200.8	104.3	10607	D:6PAPERMT -6CORRCTN1 +3LANEXA -6LANEXA 2
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	107.5	70.0	103.0	104.3	13424	D:6PENNIMA-6KINGS M1 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	107.4	71.6	103.0	104.3	16858	D:6DENBIGH-6WALR2851 +3KINGS M-3TOANO581
313818	6BENCHRC	230	314522	6CHCKTUK	230	1	LN	701.1	389.2	672.0	104.3	16897	D:6DENBIGH-6WALR2851 +6WINCHST-6POOLSVL1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	107.4	57.2	103.0	104.2	13844	D:6PENNIMA-6WALR2091 +6SURY -6POOLSVL1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	107.4	57.2	103.0	104.2	17128	D:6DENBIGH-6YORKTWN1 +6LIGH209-6WALR2091
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	107.3	70.0	103.0	104.2	19179	D:3KINGS M-3TOANO581 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	107.3	70.0	103.0	104.2	19181	D:3KINGS M-3TOANO581 +6PEMBROK-6SHELBNK1

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	107.4	57.2	103.0	104.2	19951	D:3LANEXA -3NNWS581 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	107.3	71.6	103.0	104.2	21152	D:3LEBAN58-3YNS 581 +6LIGH209-6WALR2091
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	107.3	57.2	103.0	104.2	23097	D:3NNWS58-3TOANO581 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	107.2	71.6	103.0	104.1	19164	D:3KINGS M-3TOANO581 +6KINGS M-6YORKTWN1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	107.2	70.0	103.0	104.1	19423	D:3KINGS M-3YNS 581 +6LIGH209-6WALR2091
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	107.2	71.6	103.0	104.0	1686	D:6ROCKLAN-6YORKTWN1 +6WINCHST-6POOLSVL1
314537	6SUFFOLK	230	314928 8SULFOLK	500	2	TR	1044.4	386.5	1004.3	104.0	51125	D:8SEPTA -8YADKIN 1 +8YADKIN -8SULFOLK1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	107.1	70.0	103.0	103.9	1831	D:6ROCKLAN-6YORKTWN1 +6SURREY -6POOLSVL1
314401	3PENINSL	115	314412 3U CARBD	115	1	LN	141.3	21.2	136.0	103.9	1831	D:6ROCKLAN-6YORKTWN1 +6SURREY -6POOLSVL1
314412	3U CARBD	115	314417 3WHEALTN	115	1	LN	141.3	21.2	136.0	103.9	1831	D:6ROCKLAN-6YORKTWN1 +6SURREY -6POOLSVL1
314401	3PENINSL	115	314412 3U CARBD	115	1	LN	141.3	21.2	136.0	103.9	2303	D:6BENCHRC-6NP NEWS1 +6TABB -6YORKTWN1
314412	3U CARBD	115	314417 3WHEALTN	115	1	LN	141.3	21.2	136.0	103.9	2303	D:6BENCHRC-6NP NEWS1 +6TABB -6YORKTWN1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	107.0	70.0	103.0	103.9	17121	D:6DENBIGH-6YORKTWN1 +3LANEXA -3NNWS581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	107.0	71.6	103.0	103.9	17134	D:6DENBIGH-6YORKTWN1 +3NNWS58-3TOANO581
314214	6CHCKAHM	230	314903 8CHCKAHM	500	1	TR	980.9	450.0	944.6	103.8	20686	D:6LANEXA -6LIGH2091 +3WARMICK-3WHEALTN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	106.8	71.6	103.0	103.7	2273	D:6BENCHRC-6NP NEWS1 +3KINGS M-3YNS 581
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	106.8	57.2	103.0	103.7	13651	D:6PENNIMA-6WALR2091 +6DENBIGH-6WALR2851
314916	8MORRISVL	500	314929 8FRONT ROYAL	500	1	LN	3181.3	1641.7	3067.0	103.7	51287	D:01DOUBS -8MT STM 1 +01MDWRK-8LODOUN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	106.5	71.6	103.0	103.4	17120	D:6DENBIGH-6YORKTWN1 +6KINGS M-6YORKTWN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	106.6	71.6	103.0	103.4	19700	D:6KINGS M-6YORKTWN1 +6WHEALTN-6WINCHST1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	106.5	57.2	103.0	103.4	19921	D:3LANEXA -3NNWS581 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	106.5	71.6	103.0	103.4	19945	D:3LANEXA -3NNWS581 +3WARMICK-3WHEALTN1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	106.5	57.2	103.0	103.4	20837	D:6LANEXA -6LIGH2091 +8SEPTA -8YADKIN 1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	106.5	71.6	103.0	103.4	21401	D:6LIGH285-6WALR2851 +3NNWS58-3TOANO581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	106.5	71.6	103.0	103.4	23091	D:3NNWS58-3TOANO581 +3WARMICK-3WHEALTN1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	106.5	70.0	103.0	103.4	23791	D:6PEMBROK-6SHELBK1 +6TABB -6YORKTWN1
314376	6DENBIGH	230	314413 6WALR285	230	1	LN	857.8	257.3	830.0	103.3	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	106.4	70.0	103.0	103.3	16895	D:6DENBIGH-6WALR2851 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	106.4	70.0	103.0	103.3	23324	D:6NP NEWS-6PEMBROK1 +6TABB -6YORKTWN1
314387	3LANEXA	115	314396 3NNWS58	115	1	LN	174.6	103.7	169.0	103.3	23332	D:6NP NEWS-6PEMBROK1 +6WINCHST-6POOLSVL1
314396	3NNWS58	115	314411 3TOANO58	115	1	LN	174.6	103.7	169.0	103.3	23332	D:6NP NEWS-6PEMBROK1 +6WINCHST-6POOLSVL1
314387	3LANEXA	115	314396 3NNWS58	115	1	LN	174.7	103.7	169.0	103.3	23799	D:6PEMBROK-6SHELBK1 +6WINCHST-6POOLSVL1
314396	3NNWS58	115	314411 3TOANO58	115	1	LN	174.7	103.7	169.0	103.3	23799	D:6PEMBROK-6SHELBK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	106.2	70.0	103.0	103.1	2591	D:6BENCHRC-6CHCKTUK1 +3LEBAN58-3YNS 581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	106.1	71.6	103.0	103.1	19199	D:3KINGS M-3TOANO581 +6WHEALTN-6WINCHST1
314214	6CHCKAHM	230	314903 8CHCKAHM	500	1	TR	973.0	450.0	944.6	103.0	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	106.1	71.6	103.0	103.0	10324	D:3WEST PT-3LANEXA 1 +6LANEXA -6LIGH2091
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	106.0	57.2	103.0	102.9	13699	D:6PENNIMA-6WALR2091 +6WINCHST-6POOLSVL1
314417	3WHEALTN	115	314418 6WHEALTN	230	2	TR	297.0	102.5	289.0	102.8	2609	D:6BENCHRC-6CHCKTUK1 +6PENINSL-6TABB 1
314378	3FTEUS34	115	314381 3GRAFT34	115	1	LN	105.8	57.2	103.0	102.7	2274	D:6BENCHRC-6NP NEWS1 +6KINGS M-6YORKTWN1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	105.8	70.0	103.0	102.7	16858	D:6DENBIGH-6WALR2851 +3KINGS M-3TOANO581

**	From bus	**	**	To bus	**	CKT	Type	ContkVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	105.7	71.6	103.0	102.7	20863	D:6LANEXA -6LIGH2091 +8CARSON -8SULFOLKI
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	105.7	70.0	103.0	102.7	21152	D:3LEBAN58-3YNWS 581 +6LIGH209-6WALR2091
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	105.8	57.2	103.0	102.7	21402	D:6LIGH285-6WALR2851 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	105.6	70.0	103.0	102.5	1886	D:6ROCKLAN-6YORKTWN1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	105.6	71.6	103.0	102.5	2623	D:6BENCHRC-6CHCKTUK1 +3YORKTWN-3YORK PSI
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	105.6	71.6	103.0	102.5	2626	D:6BENCHRC-6CHCKTUK1 +6YORKTWN-3YORK PSI
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	105.6	57.2	103.0	102.5	13571	D:6PENNIMA-6KINGS M1 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	105.6	70.0	103.0	102.5	19164	D:3KINGS M-3TOANO581 +6KINGS M-6YORKTWN1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	105.4	71.6	103.0	102.4	2280	D:6BENCHRC-6NP NEWS1 +3LEBAN58-3YNWS 581
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	105.5	71.6	103.0	102.4	2770	D:6BENCHRC-6CHCKTUK1 +6SURREY -1SURREY 11
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	105.5	57.2	103.0	102.4	19172	D:3KINGS M-3TOANO581 +6LIGH209-6WALR2091
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	105.5	71.6	103.0	102.4	19597	D:3KINGS M-3YNWS 581 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	105.4	70.0	103.0	102.3	20686	D:6LANEXA -6LIGH2091 +3WARMICK-3WHEALT1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	105.3	70.0	103.0	102.2	2273	D:6BENCHRC-6NP NEWS1 +3KINGS M-3YNWS 581
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	105.2	57.2	103.0	102.2	2583	D:6BENCHRC-6CHCKTUK1 +3KINGS M-3TOANO581
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	105.3	57.2	103.0	102.2	21404	D:6LIGH285-6WALR2851 +6PEMBROK-6SHELENK1
314398	6NP NEWS	230	314399	6PEMBROK	230	1	LN	560.8	249.7	549.0	102.2	21811	D:6LIGH209-6WALR2091 +6SURREY -6POOLSVL1
314399	6PEMBROK	230	314407	6SHELENK	230	1	LN	560.9	249.9	549.0	102.2	21811	D:6LIGH209-6WALR2091 +6SURREY -6POOLSVL1
314214	6CHCKAHM	230	314388	6LANEXA	230	2	LN	830.0	336.4	812.0	102.2	52367	D:6CHCKAHM-6LANEXA 1 +6CHCKAHM-6LIGH2851
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	105.1	71.6	103.0	102.1	1517	D:6ROCKLAN-6WARMICK1 +6SURREY -6POOLSVL1
314391	6LIGH209	230	314415	6WALR209	230	1	LN	552.5	280.3	541.0	102.1	2263	D:6BENCHRC-6NP NEWS1 +6DENBIGH-6WALR2851
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	105.2	71.6	103.0	102.1	21572	D:6LIGH285-6WALR2851 +6SURREY -1SURREY 11
314421	6WINCHST	230	314540	6POOLSVL	230	1	LN	663.1	398.7	650.0	102.0	2562	D:6BENCHRC-6CHCKTUK1 +6PENNIMA-6WALR2091
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	105.0	71.6	103.0	102.0	20865	D:6LANEXA -6LIGH2091 +8CHCKAHM-8SURREY 1
314764	3LOCST G	115	314815	3OAK GRE	115	1	LN	239.7	105.6	235.0	102.0	49625	D:8BR1STER-8CHANCE 1 +8CHANCE -8LDSMTH1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	105.0	57.2	103.0	101.9	13663	D:6PENNIMA-6WALR2091 +3LANEXA -3NNWS581
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	105.0	57.2	103.0	101.9	13676	D:6PENNIMA-6WALR2091 +3NNWS58-3TOANO581
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.9	71.6	103.0	101.9	15549	D:3COLONY -3WARMICK1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	105.0	71.6	103.0	101.9	19202	D:3KINGS M-3TOANO581 +3YORKTWN-3YORK PSI
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	105.0	71.6	103.0	101.9	19205	D:3KINGS M-3TOANO581 +6YORKTWN-3YORK PSI
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	104.9	70.0	103.0	101.9	19700	D:6KINGS M-6YORKTWN1 +6WHEALT1N-6WINCHST1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	104.9	70.0	103.0	101.9	19945	D:3LANEXA -3NNWS581 +3WARMICK-3WHEALT1N
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	105.0	70.0	103.0	101.9	20897	D:6LANEXA -6LIGH2091 +8SEPTA -8YADKIN 1
313818	6BENCHRC	230	314398	6NP NEWS	230	1	LN	684.9	362.4	672.0	101.9	21811	D:6LIGH209-6WALR2091 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	104.9	70.0	103.0	101.9	23091	D:3NNWS58-3TOANO581 +3WARMICK-3WHEALT1N
314764	3LOCST G	115	314815	3OAK GRE	115	1	LN	239.5	105.6	235.0	101.9	52221	D:3CHANCE -8CHANCE 1 +3CHANCE -8CHANCE 2
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	104.9	70.0	103.0	101.8	17120	D:6DENBIGH-6YORKTWN1 +6KINGS M-6YORKTWN1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	104.8	57.2	103.0	101.8	21664	D:6LIGH209-6WALR2091 +6WHEALT1N-6WINCHST1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	104.8	57.2	103.0	101.7	13378	D:6PENNIMA-6KINGS M1 +6DENBIGH-6WALR2851
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.7	71.6	103.0	101.6	2899	D:3WHITTEMA-3HARMONY1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.7	71.6	103.0	101.6	3208	D:3WHITTEMA-3HAYES891 +6LANEXA -6LIGH2091
314387	3LANEXA	115	314396	3NNWS58	115	1	LN	171.5	103.7	169.0	101.5	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALT1N-6WINCHST1

**	From bus	**	To bus	**	CKT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314396	3NEWS58	115	314411	3TOANO58	115	1	LN	171.5	103.7	169.0	101.5	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	104.6	70.0	103.0	101.5	D:3WEST PT-3LANEXA 1 +6LANEXA -6LIGH2091
313818	6BENCHRCH	230	314398	6NP NEWS	230	1	LN	682.4	362.4	672.0	101.5	D:6DENBIGH-6WALR2851 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.5	71.6	103.0	101.5	D:6DENBIGH-6YORKTWN1 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.6	71.6	103.0	101.5	D:6DENBIGH-6YORKTWN1 +6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	104.5	70.0	103.0	101.5	D:3KINGS M-3TOANO581 +6WHEALTN-6WINCHST1
314214	6CHCKAHM	230	314903	8CHCKAHM	500	1	TR	956.4	450.0	944.6	101.3	D:6BENCHRC-6NP NEWS1 +6SURREY -6POOLSVL1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	104.3	57.2	103.0	101.3	D:6PENNIMA-6KINGS M1 +6WINCHST-6POOLSVL1
314399	6PEMBROK	230	314407	6SHELBNK	230	1	LN	555.9	249.9	549.0	101.3	D:6DENBIGH-6WALR2851 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.3	71.6	103.0	101.3	D:3FTEUS58-3GRAFT581 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.3	71.6	103.0	101.3	D:3FTEUS58-3LEBAN581 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.3	71.6	103.0	101.3	D:3GRAFT58-3YORKTWN1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.4	71.6	103.0	101.3	D:3KINGS M-3YNWS 581 +6WINCHST-6POOLSVL1
314421	6WINCHST	230	314540	6POOLSVL	230	1	LN	657.7	398.7	650.0	101.2	D:6BENCHRC-6CHCKTUK1 +6PENNIMA-6KINGS M1
314378	3FTEUS34	115	314381	3GRAFT34	115	1	LN	104.3	57.2	103.0	101.2	D:6DENBIGH-6WALR2851 +6SURREY -6POOLSVL1
314398	6NP NEWS	230	314399	6PEMBROK	230	1	LN	555.9	249.7	549.0	101.2	D:6DENBIGH-6WALR2851 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.3	71.6	103.0	101.2	D:6LANEXA -6LIGH2091 +6KINGSFO-6SUFFOLK1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.3	71.6	103.0	101.2	D:6LANEXA -6LIGH2091 +8SURREY -8SUFFOLK1
314421	6WINCHST	230	314540	6POOLSVL	230	1	LN	657.3	398.7	650.0	101.1	D:6BENCHRC-6CHCKTUK1 +6DENBIGH-6YORKTWN1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.1	71.6	103.0	101.1	D:3COLONY -3WARWICK1 +3LANEXA -3NNWS581
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.1	71.6	103.0	101.1	D:3COLONY -3WARWICK1 +3NNWS58-3TOANO581
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	104.2	70.0	103.0	101.1	D:6LANEXA -6LIGH2091 +8CARSON -8SUFFOLK1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.0	71.6	103.0	101.0	D:6BENCHRC-6CHCKTUK1 +6PENNINSL-6SHELBNK1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	104.0	70.0	103.0	101.0	D:6BENCHRC-6CHCKTUK1 +3YORKTWN-3YORK PS1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	104.0	70.0	103.0	101.0	D:6BENCHRC-6CHCKTUK1 +6YORKTWN-3YORK PS1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.0	71.6	103.0	101.0	D:3WEST PT-3LANEXA 1 +3LANEXA -3NNWS581
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.0	71.6	103.0	101.0	D:3WEST PT-3LANEXA 1 +3NNWS58-3TOANO581
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	104.0	71.6	103.0	101.0	D:6LANEXA -6LIGH2091 +6CHCKTUR-6SURREY 1
314449	6CHESAPK	230	314514	6YADKIN	230	1	LN	838.1	545.1	830.0	101.0	D:6DOZIER -6ELIZ R 1 +8FENTRES-8YADKIN 1
314449	6CHESAPK	230	314514	6YADKIN	230	1	LN	838.2	545.1	830.0	101.0	D:6DOZIER -6GRENWCH1 +8FENTRES-8YADKIN 1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	103.9	70.0	103.0	100.9	D:6BENCHRC-6CHCKTUK1 +6SURREY -1SURREY 11
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	103.9	70.0	103.0	100.9	D:3KINGS M-3YNWS 581 +6SURREY -6POOLSVL1
314391	6LIGH209	230	314415	6WALR209	230	1	LN	545.6	280.3	541.0	100.9	D:6LIGH285-6WALR2851 +6PEMBROK-6SHELBNK1
314421	6WINCHST	230	314540	6POOLSVL	230	1	LN	555.9	398.7	650.0	100.9	D:6LIGH285-6WALR2851 +6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314378	3FTEUS34	115	1	LN	103.8	70.0	103.0	100.8	D:6BENCHRC-6NP NEWS1 +3LEBAN58-3YNWS 581
314387	3LANEXA	115	314396	3NNWS58	115	1	LN	170.3	103.7	169.0	100.8	D:6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314396	3NNWS58	115	314411	3TOANO58	115	1	LN	170.3	103.7	169.0	100.8	D:6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	103.8	71.6	103.0	100.8	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314398	6NP NEWS	230	314399	6PEMBROK	230	1	LN	553.2	249.7	549.0	100.8	D:6LIGH209-6WALR2091 +6WINCHST-6POOLSVL1
314399	6PEMBROK	230	314407	6SHELBNK	230	1	LN	553.4	249.9	549.0	100.8	D:6LIGH209-6WALR2091 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	103.7	71.6	103.0	100.7	D:6ROCKLAN-6WARWICK1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	103.8	71.6	103.0	100.7	D:6BENCHRC-6NP NEWS1 +6SURREY -1SURREY 11

**	From bus	** **	To bus	** CKT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314421	6WINCHST	230	314540 6POOLSVL	230 1	LN	654.8	398.7	650.0	100.7	21402	D:6LIGH285-6WALR2851 +6NP NEWS-6PEMBROK1
313818	6BENCHRCH	230	314398 6NP NEWS	230 1	LN	676.6	362.4	672.0	100.7	21666	D:6LIGH209-6WALR2091 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115 1	LN	103.6	70.0	103.0	100.6	1517	D:6ROCKLAN-6WARWICK1 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.7	71.6	103.0	100.6	13847	D:6PENNIMA-6WALR2091 +6SURREY -1SURREY 11
314387	3LANEXA	115	314388 6LANEXA	230 1	TR	202.0	93.9	200.8	100.6	20413	D:3LANEXA -6LANEXA 2 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.6	71.6	103.0	100.6	20678	D:6LANEXA -6LIGH2091 +6PENINSI-6SHELBNK1
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.7	71.6	103.0	100.6	21326	D:3LEBAN58-3YNWS 581 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115 1	LN	103.6	70.0	103.0	100.6	21572	D:6LIGH285-6WALR2851 +6SURREY -1SURREY 11
314377	3DOW 34	115	314378 3FTEUS34	115 1	LN	103.5	70.0	103.0	100.5	20865	D:6LANEXA -6LIGH2091 +8CHCKAHM-8SURREY 1
314391	6LIGH209	230	314415 6WALR209	230 1	LN	544.0	280.3	541.0	100.5	21402	D:6LIGH285-6WALR2851 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.5	71.6	103.0	100.5	46877	D:6CHCKTUK-6SURREY 1 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.4	71.6	103.0	100.4	10039	D:3SHACKLE-3WEST PT1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378 3FTEUS34	115 1	LN	103.4	70.0	103.0	100.4	15549	D:3COLONY -3WARWICK1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378 3FTEUS34	115 1	LN	103.4	70.0	103.0	100.4	19202	D:3KINGS M-3TOANO581 +3YORKTWN-3YORK PSI
314377	3DOW 34	115	314378 3FTEUS34	115 1	LN	103.4	70.0	103.0	100.4	19205	D:3KINGS M-3TOANO581 +6YORKTWN-3YORK PSI
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.3	71.6	103.0	100.3	2312	D:6BENCHRC-6NP NEWS1 +3YORKTWN-3YORK PSI
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.3	71.6	103.0	100.3	2315	D:6BENCHRC-6NP NEWS1 +6YORKTWN-3YORK PSI
313818	6BENCHRCH	230	314522 6CHCKTUK	230 1	LN	673.8	389.2	672.0	100.3	13844	D:6PENNIMA-6WALR2091 +6SURREY -6POOLSVL1
314214	6CHCKAHM	230	314903 8CHCKAHM	500 1	TR	946.7	450.0	944.6	100.2	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.2	71.6	103.0	100.2	5041	D:6DUNNSVI-6LANEXA 1 +6LANEXA -6LIGH2091
314378	3FTEUS34	115	314381 3GRAFT34	115 1	LN	103.3	57.2	103.0	100.2	13390	D:6PENNIMA-6KINGS M1 +3LANEXA -3NNWS581
314378	3FTEUS34	115	314381 3GRAFT34	115 1	LN	103.2	57.2	103.0	100.2	13403	D:6PENNIMA-6KINGS M1 +3NNWS58-3TOANO581
313818	6BENCHRCH	230	314398 6NP NEWS	230 1	LN	673.7	362.4	672.0	100.2	16897	D:6DENBIGH-6WALR2851 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.2	71.6	103.0	100.2	20677	D:6LANEXA -6LIGH2091 +3PENINSI-6PENINSI1
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.2	71.6	103.0	100.2	20683	D:6LANEXA -6LIGH2091 +3SHELBNK-6SHELBNK1
314378	3FTEUS34	115	314381 3GRAFT34	115 1	LN	103.1	57.2	103.0	100.1	2609	D:6BENCHRC-6CHCKTUK1 +6PENINSI-6TABB 1
314377	3DOW 34	115	314378 3FTEUS34	115 1	LN	103.1	70.0	103.0	100.1	2899	D:3WHITEMA-3HARMONY1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378 3FTEUS34	115 1	LN	103.1	70.0	103.0	100.1	3208	D:3WHITEMA-3HAYES891 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.1	71.6	103.0	100.1	5944	D:3HARMONY-3SHACKLE1 +6LANEXA -6LIGH2091
314378	3FTEUS34	115	314381 3GRAFT34	115 1	LN	103.0	57.2	103.0	100.0	16897	D:6DENBIGH-6WALR2851 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115 1	LN	102.9	70.0	103.0	100.0	17137	D:6DENBIGH-6YORKTWN1 +6PEMBROK-6SHELBNK1
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	103.0	71.6	103.0	100.0	19422	D:3KINGS M-3YNWS 581 +6LIGH285-6WALR2851
314378	3FTEUS34	115	314381 3GRAFT34	115 1	LN	103.0	57.2	103.0	100.0	19847	D:6KINGS M-6YORKTWN1 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115 1	LN	102.9	70.0	103.0	99.9	17135	D:6DENBIGH-6YORKTWN1 +6NP NEWS-6PEMBROK1
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	102.9	71.6	103.0	99.9	20693	D:6LANEXA -6LIGH2091 +3YORKTWN-3YORK PSI
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	102.9	71.6	103.0	99.9	20696	D:6LANEXA -6LIGH2091 +6YORKTWN-3YORK PSI
314682	3BUGGS 1	115	315151 1BUGGS 2	13-8 1	TR	69.9	69.9	70.0	99.8	**	Base Case **
314398	6NP NEWS	230	314399 6PEMBROK	230 1	LN	547.9	249.7	549.0	99.8	16897	D:6DENBIGH-6WALR2851 +6WINCHST-6POOLSVL1
314399	6PEMBROK	230	314407 6SHELBNK	230 1	LN	548.0	249.9	549.0	99.8	16897	D:6DENBIGH-6WALR2851 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115 1	LN	102.8	71.6	103.0	99.8	19349	D:3KINGS M-3TOANO581 +6SURREY -1SURREY 11
314377	3DOW 34	115	314378 3FTEUS34	115 1	LN	102.8	70.0	103.0	99.8	19452	D:3KINGS M-3YNWS 581 +6WINCHST-6POOLSVL1
314378	3FTEUS34	115	314381 3GRAFT34	115 1	LN	102.7	57.2	103.0	99.7	2575	D:6BENCHRC-6CHCKTUK1 +6DENBIGH-6YORKTWN1

**	From bus	**	To bus	**	CRT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
314421	6WINCHST	230	314540 6POOLSVL	230	1	LN	647.9	398.7	650.0	99.7	2585	D:6BENCHRC-6CHCKTUK1 +6KINGS M-6YORKTWN1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.7	70.0	103.0	99.7	18154	D:3FTEUS58-3GRAFT581 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.7	70.0	103.0	99.7	18409	D:3FTEUS58-3LEBAN581 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.7	70.0	103.0	99.7	18916	D:3GRAFT58-3YORKTWN1 +6LANEXA -6LIGH2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.7	70.0	103.0	99.7	20819	D:6LANEXA -6LIGH2091 +6KINGSFO-6SUFFOLK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.6	71.6	103.0	99.7	20838	D:6LANEXA -6LIGH2091 +6SURREY -6GRAVELAL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.6	71.6	103.0	99.7	20839	D:6LANEXA -6LIGH2091 +6SURREY -6GRAVELAL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.7	70.0	103.0	99.7	20898	D:6LANEXA -6LIGH2091 +8SURREY -8SULFOLK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.6	71.6	103.0	99.7	21181	D:3LEBAN58-3YNNWS 581 +6WINCHST-6POOLSVL1
314377	3DOW 34	115	314387 3FTEUS34	115	1	LN	102.5	57.2	103.0	99.6	2272	D:6BENCHRC-6NP NEWS1 +3KINGS M-3TOANOS581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.6	71.6	103.0	99.7	28371	D:6WINCHST-6POOLSVL1 +6CHCKTUK-6SURREY 1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.5	70.0	103.0	99.5	15546	D:3COLONY -3WARWICK1 +3LANEXA -3NNWS581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.5	70.0	103.0	99.5	15559	D:3COLONY -3WARWICK1 +3NNWS58-3TOANOS581
313818	6BENCHRCH	230	314522 6CHCKTUK	230	1	LN	668.8	389.2	672.0	99.5	17302	D:6DENBIGH-6YORKTWN1 +6SURREY -6POOLSVL1
314421	6WINCHST	230	314540 6POOLSVL	230	1	LN	102.5	70.0	103.0	99.5	20814	D:6LANEXA -6LIGH2091 +6CHCKTUK-6SURREY 1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.4	70.0	103.0	99.4	2251	D:6BENCHRC-6NP NEWS1 +6PENNIMA-6WALR2091
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.4	70.0	103.0	99.4	2608	D:6BENCHRC-6CHCKTUK1 +6PENNINSL-6SHELBNK1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.4	70.0	103.0	99.4	10321	D:3WEST PT-3LANEXA 1 +3LANEXA -3NNWS581
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.4	71.6	103.0	99.4	10334	D:3WEST PT-3LANEXA 1 +3LANEXA -3NNWS581
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.4	70.0	103.0	99.4	20689	D:6LANEXA -6LIGH2091 +3WHEALTN-6WHEALTN2
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.3	71.6	103.0	99.4	20813	D:6LANEXA -6LIGH2091 +6CHCKTUK-6KINGSFO1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.4	71.6	103.0	99.4	21660	D:6LIGH209-6WALR2091 +3WARWICK-3WHEALTN1
314401	3PENINSL	115	314412 3U CARBD	115	1	LN	135.1	21.2	136.0	99.3	1686	D:6ROCKLAN-6YORKTWN1 +6WINCHST-6POOLSVL1
314417	3WHEALTN	115	314417 3WHEALTN	115	1	LN	135.1	21.2	136.0	99.3	1686	D:6ROCKLAN-6YORKTWN1 +6WINCHST-6POOLSVL1
313818	6BENCHRCH	230	314522 6CHCKTUK	230	1	LN	667.2	389.2	672.0	99.3	13571	D:6PENNIMA-6KINGS M1 +6SURREY -6POOLSVL1
314391	6LIGH209	230	314415 6WALR209	230	1	LN	537.4	280.3	541.0	99.3	17042	D:6DENBIGH-6WALR2851 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.2	70.0	103.0	99.2	1372	D:6ROCKLAN-6WALR2851 +6WINCHST-6POOLSVL1
314417	3WHEALTN	115	314418 6WHEALTN	230	2	TR	286.6	102.5	289.0	99.2	2298	D:6BENCHRC-6NP NEWS1 +6PENNINSL-6TABB 1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.1	70.0	103.0	99.2	2459	D:6BENCHRC-6NP NEWS1 +6SURREY -1SURREY 11
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.2	71.6	103.0	99.2	2550	D:6BENCHRC-6CHCKTUK1 +3WEST PT-3LANEXA 1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.1	70.0	103.0	99.2	2616	D:6BENCHRC-6CHCKTUK1 +3WARWICK-3WHEALTN1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.2	71.6	103.0	99.2	4738	D:6DUNNSVL-6NORNECK1 +6LANEXA -6LIGH2091
314387	3LANEXA	115	314388 6LANEXA	230	1	TR	199.2	93.9	200.8	99.2	7722	D:6HARMONY-6PAPERMI1 +3LANEXA -6LANEXA 2
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.2	71.6	103.0	99.2	13574	D:6PENNIMA-6KINGS M1 +6SURREY -1SURREY 11
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.2	71.6	103.0	99.2	20156	D:3LANEXA -3NNWS581 +6SURREY -1SURREY 11
313818	6BENCHRCH	230	314522 6CHCKTUK	230	1	LN	666.5	389.2	672.0	99.2	20662	D:6LANEXA -6LIGH2091 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.2	71.6	103.0	99.2	23302	D:3NNWS58-3TOANOS581 +8SEPTA -8YADKIN 1
314406	3SHELBNK	115	314407 6SHELBNK	230	1	TR	266.2	126.4	268.6	99.1	1517	D:6ROCKLAN-6WALR2851 +8SEPTA -8YADKIN 1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.0	70.0	103.0	99.1	13847	D:6PENNIMA-6WALR2091 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.0	71.6	103.0	99.1	19936	D:3LANEXA -3NNWS581 +6PENNINSL-6PENNINSL1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.1	70.0	103.0	99.1	20678	D:6LANEXA -6LIGH2091 +6PENNINSL-6SHELBNK1
314377	3DOW 34	115	314378 3FTEUS34	115	1	LN	102.1	70.0	103.0	99.1	21326	D:3LEBAN58-3YNNWS 581 +6SURREY -6POOLSVL1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.0	71.6	103.0	99.1	23082	D:3NNWS58-3TOANOS581 +3PENNINSL-6PENNINSL1
314537	6SUFFOLK	230	314928 8SUFFOLK	500	1	TR	1044.4	386.5	1053.5	99.1	51125	D:8SEPTA -8YADKIN 1 +8YADKIN -8SUFFOLK1
314377	3DOW 34	115	314387 3LANEXA	115	1	LN	102.0	71.6	103.0	99.0	2305	D:6BENCHRC-6NP NEWS1 +3WARWICK-3WHEALTN1

**	From bus	**	**	To bus	**	CKT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description
313818	6BENCHRCH	230	314522	6CHCKTUK	230	1	LN	665.4	389.2	672.0	99.0	13699	D:6PENNIMA-6WALR2091 +6WINCHST-6POOLSVLI
314387	3LANEXA	115	314396	3NNEWS58	115	1	LN	167.3	103.7	169.0	99.0	20662	D:6LANEXA -6LIGH2091 +6LIGH285-6WALR2851
314396	3NNEWS58	115	314411	3TOANO58	115	1	LN	167.3	103.7	169.0	99.0	20662	D:6LANEXA -6LIGH2091 +6LIGH285-6WALR2851
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	102.0	71.6	103.0	99.0	20874	D:6LANEXA -6LIGH2091 +8FENTRES-8YADKTN 1
314377	3DOW 34	115	314387	3LANEXA	115	1	LN	102.0	71.6	103.0	99.0	21871	D:6LIGH209-6WALR2091 +8SEPTA -8YADKTN 1

AC Bus Voltage Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- MON, FEB 18 2013 6:44 <VOW003.0>
2021 SUMMER BASE CASE (ERAG/MMWG22S11) REV. 04/02/2012
2013 LF WPRE

Case File H:\Trans Customer Planning\Peter Nedwick\Year2011\SkiffesCreek Application\Rebuttal Study\S2021\sum_2021(2013LF)_wpre_Open L65.sav
Subsys File H:\Trans Customer Planning\Peter Nedwick\Year2011\SkiffesCreek Application\Rebuttal Study\S2021\vpapsys.AC.sub
Monit File H:\Trans Customer Planning\Peter Nedwick\Year2011\SkiffesCreek Application\Rebuttal Study\S2021\vpapsys.mon
Contn File H:\Trans Customer Planning\Peter Nedwick\Year2011\SkiffesCreek Application\peninsula.com
Exclud File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	GDHILGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	2	D:30AKRI44-3MYRTLE 1 +6DAHLGRE-6ARNOLDS1
313810	GDHILGREN	230.0	345	354	0.8962	0.9894	0.9300	1.0700	0.9400	1.0389	LD	11	D:30AKRI44-3MYRTLE 1 +6ARNOLDS-6COMORN 1
314131	BARNOLDS	230.0	345	354	0.8957	0.9954	0.9300	1.0700	0.9457	1.0452	LD	11	D:30AKRI44-3MYRTLE 1 +6ARNOLDS-6COMORN 1
314139	GOAKGROV	230.0	345	354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	11	D:30AKRI44-3MYRTLE 1 +6ARNOLDS-6COMORN 1
314190	GWESTHOR	230.0	345	354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	11	D:30AKRI44-3MYRTLE 1 +6ARNOLDS-6COMORN 1
313810	GDHILGREN	230.0	345	354	0.8992	0.9894	0.9300	1.0700	0.9400	1.0389	LD	12	D:30AKRI44-3MYRTLE 1 +6BIRCHWD-6COMORN 1
314131	BARNOLDS	230.0	345	354	0.8883	0.9954	0.9300	1.0700	0.9457	1.0452	LD	12	D:30AKRI44-3MYRTLE 1 +6BIRCHWD-6COMORN 1
314139	GOAKGROV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	12	D:30AKRI44-3MYRTLE 1 +6BIRCHWD-6COMORN 1
314175	6COMORN	230.0	345	354	0.8923	0.9844	0.9300	1.0700	0.9352	1.0337	LD	12	D:30AKRI44-3MYRTLE 1 +6BIRCHWD-6COMORN 1
314182	GNORNECK	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	12	D:30AKRI44-3MYRTLE 1 +6BIRCHWD-6COMORN 1
314183	GSANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	12	D:30AKRI44-3MYRTLE 1 +6BIRCHWD-6COMORN 1
314190	GWESTHOR	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	12	D:30AKRI44-3MYRTLE 1 +6BIRCHWD-6COMORN 1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	28	D:30AKRI44-3MYRTLE 1 +6HAYES -6YORKTWN1
314189	6PAFERMILL	230.0	345	354	0.9071	1.0014	0.9300	1.0700	0.9513	1.0515	LD	57	D:30AKRI44-3MYRTLE 1 +6CORRECTN-6LANEXA 1
314375	6CORRECTN	230.0	345	354	0.9067	1.0020	0.9300	1.0700	0.9519	1.0521	LD	57	D:30AKRI44-3MYRTLE 1 +6CORRECTN-6LANEXA 1
313810	GDHILGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	320	D:30AKRI44-3SUFFOLK1 +6DAHLGRE-6ARNOLDS1
313810	GDHILGREN	230.0	345	354	0.8962	0.9894	0.9300	1.0700	0.9400	1.0389	LD	329	D:30AKRI44-3SUFFOLK1 +6ARNOLDS-6COMORN 1
314131	BARNOLDS	230.0	345	354	0.8957	0.9954	0.9300	1.0700	0.9457	1.0452	LD	329	D:30AKRI44-3SUFFOLK1 +6ARNOLDS-6COMORN 1
314139	GOAKGROV	230.0	345	354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	329	D:30AKRI44-3SUFFOLK1 +6ARNOLDS-6COMORN 1
314190	GWESTHOR	230.0	345	354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	329	D:30AKRI44-3SUFFOLK1 +6ARNOLDS-6COMORN 1
313810	GDHILGREN	230.0	345	354	0.8992	0.9894	0.9300	1.0700	0.9400	1.0389	LD	330	D:30AKRI44-3SUFFOLK1 +6BIRCHWD-6COMORN 1
314131	BARNOLDS	230.0	345	354	0.8883	0.9954	0.9300	1.0700	0.9457	1.0452	LD	330	D:30AKRI44-3SUFFOLK1 +6BIRCHWD-6COMORN 1
314139	GOAKGROV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	330	D:30AKRI44-3SUFFOLK1 +6BIRCHWD-6COMORN 1
314175	6COMORN	230.0	345	354	0.8923	0.9844	0.9300	1.0700	0.9352	1.0337	LD	330	D:30AKRI44-3SUFFOLK1 +6BIRCHWD-6COMORN 1
314182	GNORNECK	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	330	D:30AKRI44-3SUFFOLK1 +6BIRCHWD-6COMORN 1
314183	GSANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	330	D:30AKRI44-3SUFFOLK1 +6BIRCHWD-6COMORN 1
314190	GWESTHOR	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	330	D:30AKRI44-3SUFFOLK1 +6BIRCHWD-6COMORN 1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	346	D:30AKRI44-3SUFFOLK1 +6HAYES -6YORKTWN1
314189	6PAFERMILL	230.0	345	354	0.9071	1.0014	0.9300	1.0700	0.9513	1.0515	LD	375	D:30AKRI44-3SUFFOLK1 +6CORRECTN-6LANEXA 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314375	6CORRCTN	230.0	345	354	0.9067	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	375	D: 30AKRI 44-3SUFFOLK1 +6CORRCTN-6LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	639	D: 6DAHLGRE-6ARNOLDS1 +6ROCKLAN-6WARWICK1
313810	6DAHLGREN	230.0	345	354	0.9071	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	640	D: 6DAHLGRE-6ARNOLDS1 +6ROCKLAN-6YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.8717	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	642	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6NP NEWS1
314139	6OAKGROV	230.0	345	354	0.8796	0.9878	0.9300	1.0700	0.9384	0.9384	1.0372	LD	642	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6NP NEWS1
314172	6DUNNSVL	230.0	345	354	0.9021	0.9881	0.9300	1.0700	0.9387	0.9387	1.0376	LD	642	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6NP NEWS1
314182	6NORNECK	230.0	345	354	0.8896	0.9844	0.9300	1.0700	0.9356	0.9356	1.0341	LD	642	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6NP NEWS1
314183	6SANDERS	230.0	345	354	0.8843	0.9863	0.9300	1.0700	0.9370	0.9370	1.0356	LD	642	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6NP NEWS1
314190	6WESTMOR	230.0	345	354	0.8643	0.9863	0.9300	1.0700	0.9400	0.9400	1.0389	LD	643	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6CHCKTUK1
313810	6DAHLGREN	230.0	345	354	0.8665	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	643	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6CHCKTUK1
314139	6OAKGROV	230.0	345	354	0.8764	0.9878	0.9300	1.0700	0.9384	0.9384	1.0372	LD	643	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6CHCKTUK1
314172	6DUNNSVL	230.0	345	354	0.8991	0.9881	0.9300	1.0700	0.9387	0.9387	1.0376	LD	643	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6CHCKTUK1
314182	6NORNECK	230.0	345	354	0.8865	0.9844	0.9300	1.0700	0.9352	0.9352	1.0337	LD	643	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6CHCKTUK1
314183	6SANDERS	230.0	345	354	0.8841	0.9848	0.9300	1.0700	0.9356	0.9356	1.0341	LD	643	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6CHCKTUK1
314190	6WESTMOR	230.0	345	354	0.8612	0.9863	0.9300	1.0700	0.9370	0.9370	1.0356	LD	643	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6CHCKTUK1
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	644	D: 6DAHLGRE-6ARNOLDS1 +3WHITEMA-3HARMONY1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	645	D: 6DAHLGRE-6ARNOLDS1 +3WHITEMA-3HAYES891
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	646	D: 6DAHLGRE-6ARNOLDS1 +6ARNOLDS1 +6BENCHRC-6COMORN 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	647	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6COMORN 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	648	D: 6DAHLGRE-6ARNOLDS1 +6BENCHRC-6COMORN 1
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	654	D: 6DAHLGRE-6ARNOLDS1 +3HARMONY-3SHACKLE1
313810	6DAHLGREN	230.0	345	354	0.9060	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	656	D: 6DAHLGRE-6ARNOLDS1 +3HARMONY-3HARMO 11
313810	6DAHLGREN	230.0	345	354	0.9059	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	657	D: 6DAHLGRE-6ARNOLDS1 +3HARMONY-3HARMO 11
314139	6OAKGROV	230.0	345	354	0.9075	0.9878	0.9300	1.0700	0.9384	0.9384	1.0372	LD	658	D: 6DAHLGRE-6ARNOLDS1 +3HARMONY-3HARMO 21
313810	6DAHLGREN	230.0	345	354	0.9018	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	658	D: 6DAHLGRE-6ARNOLDS1 +3HARMONY-3HARMO 21
314139	6OAKGROV	230.0	345	354	0.9094	0.9878	0.9300	1.0700	0.9384	0.9384	1.0372	LD	659	D: 6DAHLGRE-6ARNOLDS1 +3HARMONY-3HARMO 21
313810	6DAHLGREN	230.0	345	354	0.9033	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	660	D: 6DAHLGRE-6ARNOLDS1 +6HARMONY-6PAPERMI1
313810	6DAHLGREN	230.0	345	354	0.9005	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	660	D: 6DAHLGRE-6ARNOLDS1 +6HARMONY-6PAPERMI1
314139	6OAKGROV	230.0	345	354	0.9081	0.9878	0.9300	1.0700	0.9384	0.9384	1.0372	LD	661	D: 6DAHLGRE-6ARNOLDS1 +3HAYES89-6HAYES 1
313810	6DAHLGREN	230.0	345	354	0.9027	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	662	D: 6DAHLGRE-6ARNOLDS1 +3LANCAST-3LANCA 11
313810	6DAHLGREN	230.0	345	354	0.8788	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	662	D: 6DAHLGRE-6ARNOLDS1 +3LANCAST-3LANCA 11
314139	6OAKGROV	230.0	345	354	0.8867	0.9878	0.9300	1.0700	0.9384	0.9384	1.0372	LD	662	D: 6DAHLGRE-6ARNOLDS1 +3LANCAST-3LANCA 11
314182	6NORNECK	230.0	345	354	0.8965	0.9844	0.9300	1.0700	0.9352	0.9352	1.0337	LD	662	D: 6DAHLGRE-6ARNOLDS1 +3LANCAST-3LANCA 11
314183	6SANDERS	230.0	345	354	0.8941	0.9848	0.9300	1.0700	0.9356	0.9356	1.0341	LD	662	D: 6DAHLGRE-6ARNOLDS1 +3LANCAST-3LANCA 11
314190	6WESTMOR	230.0	345	354	0.8924	0.9863	0.9300	1.0700	0.9370	0.9370	1.0356	LD	662	D: 6DAHLGRE-6ARNOLDS1 +3LANCAST-3LANCA 11
313810	6DAHLGREN	230.0	345	354	0.8964	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	663	D: 6DAHLGRE-6ARNOLDS1 +6HAYES -6YORKTWN1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	0.9384	1.0372	LD	663	D: 6DAHLGRE-6ARNOLDS1 +6HAYES -6YORKTWN1
314182	6NORNECK	230.0	345	354	0.9056	1.0085	0.9300	1.0700	0.9581	0.9581	1.0589	LD	663	D: 6DAHLGRE-6ARNOLDS1 +6HAYES -6YORKTWN1
314183	6SANDERS	230.0	345	354	0.9086	0.9863	0.9300	1.0700	0.9370	0.9370	1.0356	LD	663	D: 6DAHLGRE-6ARNOLDS1 +6HAYES -6YORKTWN1
314190	6WESTMOR	230.0	345	354	0.8982	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	664	D: 6DAHLGRE-6ARNOLDS1 +3NORNECK-6NORNECK1
313810	6DAHLGREN	230.0	345	354	0.9059	0.9878	0.9300	1.0700	0.9384	0.9384	1.0372	LD	664	D: 6DAHLGRE-6ARNOLDS1 +3NORNECK-6NORNECK1
314139	6OAKGROV	230.0	345	354	0.8995	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	665	D: 6DAHLGRE-6ARNOLDS1 +3NORNECK-6NORNECK2
314172	6DUNNSVL	230.0	345	354	0.9071	0.9878	0.9300	1.0700	0.9384	0.9384	1.0372	LD	665	D: 6DAHLGRE-6ARNOLDS1 +3NORNECK-6NORNECK2
314182	6NORNECK	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	668	D: 6DAHLGRE-6ARNOLDS1 +3SHACKLE-3WEST PT1
313810	6DAHLGREN	230.0	345	354	0.9042	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	669	D: 6DAHLGRE-6ARNOLDS1 +3WEST PT-3LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.9013	0.9894	0.9300	1.0700	0.9400	0.9400	1.0389	LD	670	D: 6DAHLGRE-6ARNOLDS1 +6PAPERMI-6CORRECTN1
314139	6OAKGROV	230.0	345	354	0.9089	0.9878	0.9300	1.0700	0.9384	0.9384	1.0372	LD	670	D: 6DAHLGRE-6ARNOLDS1 +6PAPERMI-6CORRECTN1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	671	D:6DAHLGRE-6ARNOLDSD1 +30AKRIDG-30AKRI 11
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	672	D:6DAHLGRE-6ARNOLDSD1 +30AKRIDG-3KINGS F1
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	673	D:6DAHLGRE-6ARNOLDSD1 +30AKRIDG-30AKRI2321
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	674	D:6DAHLGRE-6ARNOLDSD1 +1GOSPORT-3GOSPORT1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	675	D:6DAHLGRE-6ARNOLDSD1 +1GOSPORT-1GOSPORTAL
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	676	D:6DAHLGRE-6ARNOLDSD1 +1GOSPORT-1GOSPORTB1
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	677	D:6DAHLGRE-6ARNOLDSD1 +1GOSPORT-1GOSPORTC1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	678	D:6DAHLGRE-6ARNOLDSD1 +6BIRNEC-6LANESTN1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	679	D:6DAHLGRE-6ARNOLDSD1 +6BIRNEC-6VA BCH 1
313810	6DAHLGREN	230.0	345	354	0.9008	0.9894	0.9300	1.0700	0.9400	1.0389	LD	680	D:6DAHLGRE-6ARNOLDSD1 +6PENNIMA-6KINGS M1
31139	6OAKGROV	230.0	345	354	0.9084	0.9878	0.9300	1.0700	0.9384	1.0372	LD	680	D:6DAHLGRE-6ARNOLDSD1 +6PENNIMA-6KINGS M1
313810	6DAHLGREN	230.0	345	354	0.9066	0.9894	0.9300	1.0700	0.9400	1.0389	LD	681	D:6DAHLGRE-6ARNOLDSD1 +6PENNIMA-6WALR2091
31139	6OAKGROV	230.0	345	354	0.9082	0.9878	0.9300	1.0700	0.9384	1.0372	LD	681	D:6DAHLGRE-6ARNOLDSD1 +6PENNIMA-6WALR2091
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	682	D:6DAHLGRE-6ARNOLDSD1 +3S27T67A-3BURTN671
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	683	D:6DAHLGRE-6ARNOLDSD1 +3S27T67B-3BURTN671
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	684	D:6DAHLGRE-6ARNOLDSD1 +3S27T67B-3BURTN671
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	685	D:6DAHLGRE-6ARNOLDSD1 +3S27T67B-30AKWOOD1
313810	6DAHLGREN	230.0	345	354	0.9057	0.9894	0.9300	1.0700	0.9400	1.0389	LD	686	D:6DAHLGRE-6ARNOLDSD1 +3AMCO Y-3YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.9081	0.9894	0.9300	1.0700	0.9400	1.0389	LD	687	D:6DAHLGRE-6ARNOLDSD1 +3BLOXOMC-3MERCURY1
313810	6DAHLGREN	230.0	345	354	0.9036	0.9894	0.9300	1.0700	0.9400	1.0389	LD	688	D:6DAHLGRE-6ARNOLDSD1 +3COLONY -3WARWICK1
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	689	D:6DAHLGRE-6ARNOLDSD1 +3COLONY -3YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	690	D:6DAHLGRE-6ARNOLDSD1 +3COPELAND-3NEHS751
313810	6DAHLGREN	230.0	345	354	0.9067	0.9894	0.9300	1.0700	0.9400	1.0389	LD	691	D:6DAHLGRE-6ARNOLDSD1 +3COPELAND-3WHEALTNI
313810	6DAHLGREN	230.0	345	354	0.8991	0.9894	0.9300	1.0700	0.9400	1.0389	LD	692	D:6DAHLGRE-6ARNOLDSD1 +6CORRCTN-6LANEXA 1
31139	6OAKGROV	230.0	345	354	0.9068	0.9878	0.9300	1.0700	0.9384	1.0372	LD	692	D:6DAHLGRE-6ARNOLDSD1 +6CORRCTN-6LANEXA 1
314176	6HARMONY	230.0	345	354	0.9040	1.0040	0.9300	1.0700	0.9538	1.0542	LD	692	D:6DAHLGRE-6ARNOLDSD1 +6CORRCTN-6LANEXA 1
314189	6EAPERMILL	230.0	345	354	0.8978	1.0014	0.9300	1.0700	0.9513	1.0515	LD	692	D:6DAHLGRE-6ARNOLDSD1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8974	1.0020	0.9300	1.0700	0.9519	1.0521	LD	692	D:6DAHLGRE-6ARNOLDSD1 +6CORRCTN-6LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.9011	0.9894	0.9300	1.0700	0.9400	1.0389	LD	693	D:6DAHLGRE-6ARNOLDSD1 +6DENBIGH-6WALR2851
314139	6OAKGROV	230.0	345	354	0.9087	0.9878	0.9300	1.0700	0.9384	1.0372	LD	693	D:6DAHLGRE-6ARNOLDSD1 +6DENBIGH-6WALR2851
313810	6DAHLGREN	230.0	345	354	0.9040	0.9894	0.9300	1.0700	0.9400	1.0389	LD	694	D:6DAHLGRE-6ARNOLDSD1 +6DENBIGH-6YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	695	D:6DAHLGRE-6ARNOLDSD1 +3DOW 34 -3FTEUS341
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	696	D:6DAHLGRE-6ARNOLDSD1 +3DOW 34 -3LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.9055	0.9894	0.9300	1.0700	0.9400	1.0389	LD	697	D:6DAHLGRE-6ARNOLDSD1 +3FTEUS34-3GRAFT341
313810	6DAHLGREN	230.0	345	354	0.9031	0.9894	0.9300	1.0700	0.9400	1.0389	LD	698	D:6DAHLGRE-6ARNOLDSD1 +3FTEUS58-3GRAFT581
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	699	D:6DAHLGRE-6ARNOLDSD1 +3GRAFT34-3YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.9023	0.9894	0.9300	1.0700	0.9400	1.0389	LD	701	D:6DAHLGRE-6ARNOLDSD1 +3GRAFT58-3YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.9064	0.9894	0.9300	1.0700	0.9400	1.0389	LD	702	D:6DAHLGRE-6ARNOLDSD1 +3KINGS M-3TOANOS61
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	703	D:6DAHLGRE-6ARNOLDSD1 +3KINGS M-3YNNWS 581
313810	6DAHLGREN	230.0	345	354	0.9004	0.9894	0.9300	1.0700	0.9400	1.0389	LD	704	D:6DAHLGRE-6ARNOLDSD1 +6KINGS M-6YORKTWN1
31139	6OAKGROV	230.0	345	354	0.9080	0.9878	0.9300	1.0700	0.9384	1.0372	LD	704	D:6DAHLGRE-6ARNOLDSD1 +6KINGS M-6YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	705	D:6DAHLGRE-6ARNOLDSD1 +3LANEXA -3NNWS581
313810	6DAHLGREN	230.0	345	354	0.9048	0.9894	0.9300	1.0700	0.9400	1.0389	LD	706	D:6DAHLGRE-6ARNOLDSD1 +3LANEXA -6LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.9038	0.9894	0.9300	1.0700	0.9400	1.0389	LD	707	D:6DAHLGRE-6ARNOLDSD1 +3LANEXA -6LANEXA 2
313810	6DAHLGREN	230.0	345	354	0.9022	0.9894	0.9300	1.0700	0.9400	1.0389	LD	708	D:6DAHLGRE-6ARNOLDSD1 +6LANEXA -6LIGH2091
313810	6DAHLGREN	230.0	345	354	0.8990	0.9894	0.9300	1.0700	0.9400	1.0389	LD	709	D:6DAHLGRE-6ARNOLDSD1 +6LANEXA -6LANEX 11

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314139	60AKGROV	230.0	345	354	0.8967	0.9678	0.9300	1.0700	0.9384	1.0372	LD	709	D: 6DAHLGRE-CARNOLDS1 +6LANEXA -6LANEX 11
314182	60DRNECK	230.0	345	354	0.9064	0.9644	0.9300	1.0700	0.9352	1.0347	LD	709	D: 6DAHLGRE-CARNOLDS1 +6LANEXA -6LANEX 11
314183	60SANDERS	230.0	345	354	0.9041	0.9648	0.9300	1.0700	0.9356	1.0341	LD	709	D: 6DAHLGRE-CARNOLDS1 +6LANEXA -6LANEX 11
314190	60WESTMOR	230.0	345	354	0.9013	0.9663	0.9300	1.0700	0.9370	1.0356	LD	709	D: 6DAHLGRE-CARNOLDS1 +6LANEXA -6LANEX 11
313810	60AHLGREN	230.0	345	354	0.9048	0.9894	0.9300	1.0700	0.9400	1.0389	LD	710	D: 6DAHLGRE-CARNOLDS1 +3LSBAN58-3YNWS 581
313810	60AHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	711	D: 6DAHLGRE-CARNOLDS1 +6LICH285-6WALR2851
314139	60AKGROV	230.0	345	354	0.9058	0.9878	0.9300	1.0700	0.9384	1.0372	LD	711	D: 6DAHLGRE-CARNOLDS1 +6LICH285-6WALR2851
313810	60AHLGREN	230.0	345	354	0.9045	0.9894	0.9300	1.0700	0.9400	1.0389	LD	712	D: 6DAHLGRE-CARNOLDS1 +6LICH209-6WALR2091
313810	60AHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	713	D: 6DAHLGRE-CARNOLDS1 +3MAGNDR-3PENINS11
313810	60AHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	714	D: 6DAHLGRE-CARNOLDS1 +3MAGNDR-3SHELBK1
313810	60AHLGREN	230.0	345	354	0.9056	0.9894	0.9300	1.0700	0.9400	1.0389	LD	715	D: 6DAHLGRE-CARNOLDS1 +3MERCURY-3SHELBK1
313810	60AHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	716	D: 6DAHLGRE-CARNOLDS1 +3NADA -3PENINS11
313810	60AHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	717	D: 6DAHLGRE-CARNOLDS1 +3NADA -3PENINS12
313810	60AHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	718	D: 6DAHLGRE-CARNOLDS1 +3NNWS58-3TOANOS81
313810	60AHLGREN	230.0	345	354	0.8771	0.9894	0.9300	1.0700	0.9400	1.0372	LD	719	D: 6DAHLGRE-CARNOLDS1 +6NP NEWS-6PEMBROK1
314139	60AKGROV	230.0	345	354	0.8850	0.9878	0.9300	1.0700	0.9384	1.0372	LD	719	D: 6DAHLGRE-CARNOLDS1 +6NP NEWS-6PEMBROK1
314172	60UNNSVL	230.0	345	354	0.9072	0.9881	0.9300	1.0700	0.9387	1.0376	LD	719	D: 6DAHLGRE-CARNOLDS1 +6NP NEWS-6PEMBROK1
314182	60DRNECK	230.0	345	354	0.8949	0.9844	0.9300	1.0700	0.9352	1.0337	LD	719	D: 6DAHLGRE-CARNOLDS1 +6NP NEWS-6PEMBROK1
314183	60SANDERS	230.0	345	354	0.8925	0.9848	0.9300	1.0700	0.9356	1.0341	LD	719	D: 6DAHLGRE-CARNOLDS1 +6NP NEWS-6PEMBROK1
314190	60WESTMOR	230.0	345	354	0.8897	0.9863	0.9300	1.0700	0.9370	1.0356	LD	719	D: 6DAHLGRE-CARNOLDS1 +6NP NEWS-6PEMBROK1
313810	60AHLGREN	230.0	345	354	0.9002	0.9894	0.9300	1.0700	0.9400	1.0389	LD	720	D: 6DAHLGRE-CARNOLDS1 +6NP NEWS-6NP NE 11
314139	60AKGROV	230.0	345	354	0.9078	0.9878	0.9300	1.0700	0.9384	1.0372	LD	720	D: 6DAHLGRE-CARNOLDS1 +6NP NEWS-6NP NE 11
313810	60AHLGREN	230.0	345	354	0.8771	0.9894	0.9300	1.0700	0.9400	1.0389	LD	721	D: 6DAHLGRE-CARNOLDS1 +6PEMBROK-6SHELBK1
314139	60AKGROV	230.0	345	354	0.8849	0.9878	0.9300	1.0700	0.9384	1.0372	LD	721	D: 6DAHLGRE-CARNOLDS1 +6PEMBROK-6SHELBK1
314172	60UNNSVL	230.0	345	354	0.9071	0.9881	0.9300	1.0700	0.9387	1.0376	LD	721	D: 6DAHLGRE-CARNOLDS1 +6PEMBROK-6SHELBK1
314182	60DRNECK	230.0	345	354	0.8948	0.9844	0.9300	1.0700	0.9352	1.0337	LD	721	D: 6DAHLGRE-CARNOLDS1 +6PEMBROK-6SHELBK1
314183	60SANDERS	230.0	345	354	0.8924	0.9848	0.9300	1.0700	0.9356	1.0341	LD	721	D: 6DAHLGRE-CARNOLDS1 +6PEMBROK-6SHELBK1
314190	60WESTMOR	230.0	345	354	0.8856	0.9863	0.9300	1.0700	0.9370	1.0356	LD	721	D: 6DAHLGRE-CARNOLDS1 +6PEMBROK-6SHELBK1
313810	60AHLGREN	230.0	345	354	0.9048	0.9894	0.9300	1.0700	0.9400	1.0389	LD	722	D: 6DAHLGRE-CARNOLDS1 +3PENINS1-3SEAFD761
313810	60AHLGREN	230.0	345	354	0.9047	0.9894	0.9300	1.0700	0.9400	1.0389	LD	723	D: 6DAHLGRE-CARNOLDS1 +3PENINS1-3SEAFD791
313810	60AHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	724	D: 6DAHLGRE-CARNOLDS1 +3PENINS1-3U CAR801
313810	60AHLGREN	230.0	345	354	0.9056	0.9894	0.9300	1.0700	0.9400	1.0389	LD	725	D: 6DAHLGRE-CARNOLDS1 +3PENINS1-3PENIN 11
313810	60AHLGREN	230.0	345	354	0.9046	0.9894	0.9300	1.0700	0.9400	1.0389	LD	726	D: 6DAHLGRE-CARNOLDS1 +3PENINS1-6PENINS11
313810	60AHLGREN	230.0	345	354	0.9040	0.9894	0.9300	1.0700	0.9400	1.0389	LD	727	D: 6DAHLGRE-CARNOLDS1 +6PENINS1-6SHELBK1
313810	60AHLGREN	230.0	345	354	0.9068	0.9894	0.9300	1.0700	0.9400	1.0389	LD	728	D: 6DAHLGRE-CARNOLDS1 +6PENINS1-6TAB8 1
313810	60AHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	729	D: 6DAHLGRE-CARNOLDS1 +3SEAFD76-3YORKTWN1
313810	60AHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	730	D: 6DAHLGRE-CARNOLDS1 +3SEAFD79-3YORKTWN1
313810	60AHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	731	D: 6DAHLGRE-CARNOLDS1 +3SHELBK-3WHEALTNI
313810	60AHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	732	D: 6DAHLGRE-CARNOLDS1 +3SHELBK-6SHELBK1
313810	60AHLGREN	230.0	345	354	0.9048	0.9894	0.9300	1.0700	0.9400	1.0389	LD	733	D: 6DAHLGRE-CARNOLDS1 +6TAB8 -6YORKTWN1
313810	60AHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	734	D: 6DAHLGRE-CARNOLDS1 +3U CAR80-3WHEALTNI
313810	60AHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	735	D: 6DAHLGRE-CARNOLDS1 +3WARTICK-3WHEALTNI
313810	60AHLGREN	230.0	345	354	0.9037	0.9894	0.9300	1.0700	0.9400	1.0389	LD	736	D: 6DAHLGRE-CARNOLDS1 +6WARTICK-6WHEALTNI
313810	60AHLGREN	230.0	345	354	0.9047	0.9894	0.9300	1.0700	0.9400	1.0389	LD	737	D: 6DAHLGRE-CARNOLDS1 +3WHEALTNI-6WHEALTNI
313810	60AHLGREN	230.0	345	354	0.9046	0.9894	0.9300	1.0700	0.9400	1.0389	LD	738	D: 6DAHLGRE-CARNOLDS1 +3WHEALTNI-6WHEALTNI2
313810	60AHLGREN	230.0	345	354	0.8997	0.9894	0.9300	1.0700	0.9400	1.0389	LD	739	D: 6DAHLGRE-CARNOLDS1 +6WHEALTNI-6WHEALTNI2
314139	60AKGROV	230.0	345	354	0.9073	0.9878	0.9300	1.0700	0.9384	1.0372	LD	739	D: 6DAHLGRE-CARNOLDS1 +6WHEALTNI-6WHEALTNI2

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.8996	0.8994	0.9300	1.0700	0.9400	1.0389	LD	740	D:6DAHLGRE-GARNOLDS1 +6WHEALT-6WHEAL 11
314139	6DAHLGREN	230.0	345	354	0.9072	0.9070	0.9300	1.0700	0.9384	1.0372	LD	740	D:6DAHLGRE-GARNOLDS1 +6WHEALT-6WHEAL 11
313810	6DAHLGREN	230.0	345	354	0.8953	0.8951	0.9300	1.0700	0.9400	1.0389	LD	741	D:6DAHLGRE-GARNOLDS1 +6WHEALT-6WHEAL 11
314139	6DAHLGREN	230.0	345	354	0.8921	0.8919	0.9300	1.0700	0.9384	1.0372	LD	741	D:6DAHLGRE-GARNOLDS1 +6WHEALT-6WHEAL 11
314182	6DAHLGREN	230.0	345	354	0.9028	0.9026	0.9300	1.0700	0.9352	1.0337	LD	741	D:6DAHLGRE-GARNOLDS1 +6WHEALT-6WHEAL 11
314183	6DAHLGREN	230.0	345	354	0.9005	0.9003	0.9300	1.0700	0.9356	1.0341	LD	741	D:6DAHLGRE-GARNOLDS1 +6WHEALT-6WHEAL 11
314190	6DAHLGREN	230.0	345	354	0.8977	0.8975	0.9300	1.0700	0.9370	1.0356	LD	741	D:6DAHLGRE-GARNOLDS1 +6WHEALT-6WHEAL 11
313810	6DAHLGREN	230.0	345	354	0.9045	0.9043	0.9300	1.0700	0.9400	1.0389	LD	742	D:6DAHLGRE-GARNOLDS1 +3YORKTWN-3YORK PSL
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	743	D:6DAHLGRE-GARNOLDS1 +3YORKTWN-3YORK PSL
313810	6DAHLGREN	230.0	345	354	0.8966	0.8964	0.9300	1.0700	0.9400	1.0389	LD	743	D:6DAHLGRE-GARNOLDS1 +3YORKTWN-3YORK PSL
314139	6DAHLGREN	230.0	345	354	0.8923	0.8921	0.9300	1.0700	0.9384	1.0372	LD	744	D:6DAHLGRE-GARNOLDS1 +3YORKTWN-3YORK PSL
314182	6DAHLGREN	230.0	345	354	0.9099	0.9097	0.9300	1.0700	0.9352	1.0337	LD	744	D:6DAHLGRE-GARNOLDS1 +3YORKTWN-3YORK PSL
314183	6DAHLGREN	230.0	345	354	0.9076	0.9074	0.9300	1.0700	0.9356	1.0341	LD	744	D:6DAHLGRE-GARNOLDS1 +3YORKTWN-3YORK PSL
314190	6DAHLGREN	230.0	345	354	0.9045	0.9043	0.9300	1.0700	0.9400	1.0389	LD	744	D:6DAHLGRE-GARNOLDS1 +3YORKTWN-3YORK PSL
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	745	D:6DAHLGRE-GARNOLDS1 +3YORKTWN-3YORK PSL
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	746	D:6DAHLGRE-GARNOLDS1 +3YORKTWN-3YORK PSL
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	747	D:6DAHLGRE-GARNOLDS1 +3ALEX CR-3BOWERS 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	748	D:6DAHLGRE-GARNOLDS1 +3STORE -3LONC271
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	749	D:6DAHLGRE-GARNOLDS1 +3STORE -3LONC271
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	750	D:6DAHLGRE-GARNOLDS1 +3BAYSTDE-3BAYSTDE
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	751	D:6DAHLGRE-GARNOLDS1 +3BAYSTDE-3BAYSTDE
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	752	D:6DAHLGRE-GARNOLDS1 +3BERKLS1-3BOWERS
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	753	D:6DAHLGRE-GARNOLDS1 +3BERKLS1-3BOWERS
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	754	D:6DAHLGRE-GARNOLDS1 +3BOWERS -3BOWERS
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	755	D:6DAHLGRE-GARNOLDS1 +3BOWERS -3BOWERS
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	756	D:6DAHLGRE-GARNOLDS1 +6BOWERS -6BOWERS
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	757	D:6DAHLGRE-GARNOLDS1 +6BOWERS -6BOWERS
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	758	D:6DAHLGRE-GARNOLDS1 +3BURTN67-3DAVIS271
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	759	D:6DAHLGRE-GARNOLDS1 +3BURTN67-3DAVIS271
313810	6DAHLGREN	230.0	345	354	0.9051	0.9049	0.9300	1.0700	0.9400	1.0389	LD	760	D:6DAHLGRE-GARNOLDS1 +3CHESAPK-3CHESAPK
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	761	D:6DAHLGRE-GARNOLDS1 +3CHESAPK-3CHESAPK
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	762	D:6DAHLGRE-GARNOLDS1 +3CHESAPK-3DEEPC871
313810	6DAHLGREN	230.0	345	354	0.9053	0.9051	0.9300	1.0700	0.9400	1.0389	LD	763	D:6DAHLGRE-GARNOLDS1 +3CHESAPK-3DEEPC871
313810	6DAHLGREN	230.0	345	354	0.9053	0.9051	0.9300	1.0700	0.9400	1.0389	LD	764	D:6DAHLGRE-GARNOLDS1 +3CHESAPK-3DEEPC871
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	765	D:6DAHLGRE-GARNOLDS1 +3CHESAPK-3DEEPC871
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	766	D:6DAHLGRE-GARNOLDS1 +3CHESAPK-3DEEPC871
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	767	D:6DAHLGRE-GARNOLDS1 +3CHESAPK-3DEEPC871
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	768	D:6DAHLGRE-GARNOLDS1 +6CHESAPK-6CHESAPK
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	769	D:6DAHLGRE-GARNOLDS1 +6CHESAPK-6CHESAPK
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	770	D:6DAHLGRE-GARNOLDS1 +6CHESAPK-6CHESAPK
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	771	D:6DAHLGRE-GARNOLDS1 +3CHESPTX-3CHESPTX
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	772	D:6DAHLGRE-GARNOLDS1 +3CHESPTX-3CHESPTX
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	773	D:6DAHLGRE-GARNOLDS1 +3CHESPTX-3CHESPTX
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	774	D:6DAHLGRE-GARNOLDS1 +6CHESPTX-6CHESPTX
313810	6DAHLGREN	230.0	345	354	0.9047	0.9045	0.9300	1.0700	0.9400	1.0389	LD	775	D:6DAHLGRE-GARNOLDS1 +6CHESPTX-6CHESPTX
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	776	D:6DAHLGRE-GARNOLDS1 +6CHESPTX-6CHESPTX
313810	6DAHLGREN	230.0	345	354	0.9052	0.9050	0.9300	1.0700	0.9400	1.0389	LD	777	D:6DAHLGRE-GARNOLDS1 +6CHESPTX-6CHESPTX

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	778	D:6DAHLGRE-6ARNOLDS1 +6CHRHND-6CHRH1 11
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	779	D:6DAHLGRE-6ARNOLDS1 +3CMN GAS-3GRASFLD1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	780	D:6DAHLGRE-6ARNOLDS1 +3CRADOCK-3REEVES 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	781	D:6DAHLGRE-6ARNOLDS1 +3CRADOCK-3SHEA 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	782	D:6DAHLGRE-6ARNOLDS1 +3DAVIS67-3GRENWCH1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	783	D:6DAHLGRE-6ARNOLDS1 +3DAVIS67-3GRENWCH1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	784	D:6DAHLGRE-6ARNOLDS1 +3DEPC46-3YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	785	D:6DAHLGRE-6ARNOLDS1 +6DOZIER -6ELIZ R 1
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	786	D:6DAHLGRE-6ARNOLDS1 +6DOZIER -6GRENWCH1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	787	D:6DAHLGRE-6ARNOLDS1 +6ELIZ R -6YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.9048	0.9894	0.9300	1.0700	0.9400	1.0389	LD	788	D:6DAHLGRE-6ARNOLDS1 +6ELIZ R -1ELIZAR21
313810	6DAHLGREN	230.0	345	354	0.9048	0.9894	0.9300	1.0700	0.9400	1.0389	LD	789	D:6DAHLGRE-6ARNOLDS1 +6ELIZ R -1ELIZAR21
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	790	D:6DAHLGRE-6ARNOLDS1 +6ELIZ R -1ELIZAR31
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	791	D:6DAHLGRE-6ARNOLDS1 +6FENTRES-6LANDSTN1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	792	D:6DAHLGRE-6ARNOLDS1 +6FENTRES-6THRS2791
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	793	D:6DAHLGRE-6ARNOLDS1 +6FENTRES-6HICKORY1
313810	6DAHLGREN	230.0	345	354	0.9044	0.9894	0.9300	1.0700	0.9400	1.0389	LD	794	D:6DAHLGRE-6ARNOLDS1 +6FENTRES-6FENTR 11
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	795	D:6DAHLGRE-6ARNOLDS1 +6FENTRES-6FENTR 21
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	796	D:6DAHLGRE-6ARNOLDS1 +6FENTRES-8FENTRES1
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	797	D:6DAHLGRE-6ARNOLDS1 +6FENTRES-8FENTRES2
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	798	D:6DAHLGRE-6ARNOLDS1 +3GREATBR-3HICKORY1
313810	6DAHLGREN	230.0	345	354	0.9055	0.9894	0.9300	1.0700	0.9400	1.0389	LD	799	D:6DAHLGRE-6ARNOLDS1 +3GRASFLD-3GREAT B1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	800	D:6DAHLGRE-6ARNOLDS1 +6GRN RUN-6GRENWCH1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	801	D:6DAHLGRE-6ARNOLDS1 +6GRN RUN-6LYNHAVN1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	802	D:6DAHLGRE-6ARNOLDS1 +3GRENWCH-3THOLE S1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	803	D:6DAHLGRE-6ARNOLDS1 +3GRENWCH-3THOMPSN1
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	804	D:6DAHLGRE-6ARNOLDS1 +3GRENWCH-3GRENW 11
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	805	D:6DAHLGRE-6ARNOLDS1 +3GRENWCH-6GRENWCH1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	806	D:6DAHLGRE-6ARNOLDS1 +3GRENWCH-6GRENWCH2
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	807	D:6DAHLGRE-6ARNOLDS1 +6GRENWCH-6REEVES 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	808	D:6DAHLGRE-6ARNOLDS1 +6GRENWCH-6THALIA 1
313810	6DAHLGREN	230.0	345	354	0.9044	0.9894	0.9300	1.0700	0.9400	1.0389	LD	809	D:6DAHLGRE-6ARNOLDS1 +6GRENWCH-6GRENW 11
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	810	D:6DAHLGRE-6ARNOLDS1 +6HARBORV-6YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	811	D:6DAHLGRE-6ARNOLDS1 +6HARBORV-6SMITFLD1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	812	D:6DAHLGRE-6ARNOLDS1 +3HICKORY-6HICKORY1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	813	D:6DAHLGRE-6ARNOLDS1 +3IND PRK-3REEVES 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	814	D:6DAHLGRE-6ARNOLDS1 +3IND PRK-3THOLE S1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	815	D:6DAHLGRE-6ARNOLDS1 +3LANDSTN-3P ANNE 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	816	D:6DAHLGRE-6ARNOLDS1 +3LANDSTN-6LANDSTN1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	817	D:6DAHLGRE-6ARNOLDS1 +3LANDSTN-6LANDSTN2
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	818	D:6DAHLGRE-6ARNOLDS1 +6HUNTSAN-6THRS2791
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	819	D:6DAHLGRE-6ARNOLDS1 +6HUNTSAN-6SUFFOLK1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	820	D:6DAHLGRE-6ARNOLDS1 +6LANDSTN-6LYNHAVN1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	821	D:6DAHLGRE-6ARNOLDS1 +6LANDSTN-6STUMPY 1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	822	D:6DAHLGRE-6ARNOLDS1 +6LANDSTN-6W LAND 1
313810	6DAHLGREN	230.0	345	354	0.9047	0.9894	0.9300	1.0700	0.9400	1.0389	LD	823	D:6DAHLGRE-6ARNOLDS1 +6LANDSTN-6LANDS 11
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	824	D:6DAHLGRE-6ARNOLDS1 +3LONDONB-3FENDLTN1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	825	D:6DAHLGRE-GARNOLDS1 +3LONDONB-3P ANNE 1
313810	6DAHLGREN	230.0	345	354	0.9055	0.9894	0.9300	1.0700	0.9400	1.0389	LD	826	D:6DAHLGRE-GARNOLDS1 +6HARBORV-6CRITTINI
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	827	D:6DAHLGRE-GARNOLDS1 +6LX KING-1LKINGAL
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	828	D:6DAHLGRE-GARNOLDS1 +6LX KING-1LKINGAL
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	829	D:6DAHLGRE-GARNOLDS1 +6LYNHAVN-6VA BCH 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	830	D:6DAHLGRE-GARNOLDS1 +6LYNHAVN-6THALIA 1
313810	6DAHLGREN	230.0	345	354	0.9046	0.9894	0.9300	1.0700	0.9400	1.0389	LD	831	D:6DAHLGRE-GARNOLDS1 +6LYNHAVN-6LYNHA 11
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	832	D:6DAHLGRE-GARNOLDS1 +3MCLAUGH-3REEVES 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	833	D:6DAHLGRE-GARNOLDS1 +3OAKWOOD-3TAUSSIG 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	834	D:6DAHLGRE-GARNOLDS1 +3OAKWOOD-3THOLE S1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	835	D:6DAHLGRE-GARNOLDS1 +6VA BCH -3VA BCH
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	836	D:6DAHLGRE-GARNOLDS1 +6VA BCH -3VA BCH 2
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	837	D:6DAHLGRE-GARNOLDS1 +3PENDULTN-3VA BCH 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	838	D:6DAHLGRE-GARNOLDS1 +3REEVES -3REEVE 11
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	839	D:6DAHLGRE-GARNOLDS1 +3REEVES -6REEVES 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	840	D:6DAHLGRE-GARNOLDS1 +3REEVES -6REEVES 2
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	841	D:6DAHLGRE-GARNOLDS1 +6REEVES -6GRUITANI
313810	6DAHLGREN	230.0	345	354	0.9044	0.9894	0.9300	1.0700	0.9400	1.0389	LD	842	D:6DAHLGRE-GARNOLDS1 +6REEVES -6REEVE 11
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	843	D:6DAHLGRE-GARNOLDS1 +6RURITAN-6SNORFLK1
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	844	D:6DAHLGRE-GARNOLDS1 +3SEWLSPT-3TAUSSIG 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	845	D:6DAHLGRE-GARNOLDS1 +3SEWLSPT-3THOLE S1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	846	D:6DAHLGRE-GARNOLDS1 +3SEWLSPT-6SEWLSPT1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	847	D:6DAHLGRE-GARNOLDS1 +3SEWLSPT-6SEWLSPT2
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	848	D:6DAHLGRE-GARNOLDS1 +6SEWLSPT-6NAVYS 1
313810	6DAHLGREN	230.0	345	354	0.9055	0.9894	0.9300	1.0700	0.9400	1.0389	LD	849	D:6DAHLGRE-GARNOLDS1 +6SEWLSPT-6NAVYS 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	850	D:6DAHLGRE-GARNOLDS1 +6SNORFLK-6THRS2791
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	851	D:6DAHLGRE-GARNOLDS1 +6NAVYS -6NAVYN 1
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	852	D:6DAHLGRE-GARNOLDS1 +6NAVYS -6NAVYN 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	853	D:6DAHLGRE-GARNOLDS1 +6STUMPY -6THRS2791
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	854	D:6DAHLGRE-GARNOLDS1 +3THOLE S-3THOLE 11
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	855	D:6DAHLGRE-GARNOLDS1 +6THRS279-6YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	856	D:6DAHLGRE-GARNOLDS1 +3VA BCH -3VA BC 11
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	857	D:6DAHLGRE-GARNOLDS1 +3YADKIN -6YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	858	D:6DAHLGRE-GARNOLDS1 +6YADKIN -6YADK1 11
313810	6DAHLGREN	230.0	345	354	0.9049	0.9894	0.9300	1.0700	0.9400	1.0389	LD	859	D:6DAHLGRE-GARNOLDS1 +6YADKIN -8YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.9049	0.9894	0.9300	1.0700	0.9400	1.0389	LD	860	D:6DAHLGRE-GARNOLDS1 +6YADKIN -8YADKIN 2
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	861	D:6DAHLGRE-GARNOLDS1 +6YADKIN -6SUFTOLK1
313810	6DAHLGREN	230.0	345	354	0.9045	0.9894	0.9300	1.0700	0.9400	1.0389	LD	862	D:6DAHLGRE-GARNOLDS1 +6CHCKTUR-6KINGSFO1
313810	6DAHLGREN	230.0	345	354	0.9043	0.9894	0.9300	1.0700	0.9400	1.0389	LD	863	D:6DAHLGRE-GARNOLDS1 +6CHCKTUR-6SURY 1
313810	6DAHLGREN	230.0	345	354	0.9055	0.9894	0.9300	1.0700	0.9400	1.0389	LD	865	D:6DAHLGRE-GARNOLDS1 +6CRITTON-6SURY 1
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	866	D:6DAHLGRE-GARNOLDS1 +3FRANKIN -3JUNCAMP 1
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	867	D:6DAHLGRE-GARNOLDS1 +3FRANKIN -3WATKINS1
313810	6DAHLGREN	230.0	345	354	0.9032	0.9894	0.9300	1.0700	0.9400	1.0389	LD	868	D:6DAHLGRE-GARNOLDS1 +6KINGSFO-6SUFTOLK1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	869	D:6DAHLGRE-GARNOLDS1 +3HANDSOM-3S HAMPT1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	870	D:6DAHLGRE-GARNOLDS1 +3HOLLAND-3SUFTOLK1
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	871	D:6DAHLGRE-GARNOLDS1 +3HOLLAND-3JUNCAMP 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	872	D: 6DAHLGRE-GARNOLDS1 +31VOR106-30AKR1231
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	873	D: 6DAHLGRE-GARNOLDS1 +3MYRTLE -3WINDSOR1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	874	D: 6DAHLGRE-GARNOLDS1 +30AKR123-3SUFFCAP1
313810	6DAHLGREN	230.0	345	354	0.9050	0.9894	0.9300	1.0700	0.9400	1.0389	LD	875	D: 6DAHLGRE-GARNOLDS1 +6SMITFLD-6SURY 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	876	D: 6DAHLGRE-GARNOLDS1 +3S HAMPT-3WATKINS1
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	877	D: 6DAHLGRE-GARNOLDS1 +3S HAMPT-1SHAMPT11
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	878	D: 6DAHLGRE-GARNOLDS1 +3SUFFCAP-3SUFFOLK21
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	879	D: 6DAHLGRE-GARNOLDS1 +3SUFFCAP-3SUFFC 11
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	880	D: 6DAHLGRE-GARNOLDS1 +3SUFFOLK-3SUFFO 11
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	881	D: 6DAHLGRE-GARNOLDS1 +3SUFFOLK-6SUFFOLK1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	882	D: 6DAHLGRE-GARNOLDS1 +3SUFFOLK-6SUFFOLK2
313810	6DAHLGREN	230.0	345	354	0.9044	0.9894	0.9300	1.0700	0.9400	1.0389	LD	883	D: 6DAHLGRE-GARNOLDS1 +3SUFFOLK-6SUFFOLK3
313810	6DAHLGREN	230.0	345	354	0.9044	0.9894	0.9300	1.0700	0.9400	1.0389	LD	884	D: 6DAHLGRE-GARNOLDS1 +6SUFFOLK-8SULFOLK1
313810	6DAHLGREN	230.0	345	354	0.9044	0.9894	0.9300	1.0700	0.9400	1.0389	LD	885	D: 6DAHLGRE-GARNOLDS1 +6SUFFOLK-8SULFOLK2
313810	6DAHLGREN	230.0	345	354	0.8852	0.9894	0.9300	1.0700	0.9400	1.0389	LD	886	D: 6DAHLGRE-GARNOLDS1 +6SURY -6POOLSVL1
314139	6DAHLGREN	230.0	345	354	0.8930	0.9878	0.9300	1.0700	0.9384	1.0372	LD	886	D: 6DAHLGRE-GARNOLDS1 +6SURY -6POOLSVL1
314182	6DAHLGREN	230.0	345	354	0.9028	0.9844	0.9300	1.0700	0.9352	1.0337	LD	886	D: 6DAHLGRE-GARNOLDS1 +6SURY -6POOLSVL1
314183	6DAHLGREN	230.0	345	354	0.9004	0.9844	0.9300	1.0700	0.9356	1.0341	LD	886	D: 6DAHLGRE-GARNOLDS1 +6SURY -6POOLSVL1
314190	6DAHLGREN	230.0	345	354	0.8977	0.9863	0.9300	1.0700	0.9370	1.0356	LD	886	D: 6DAHLGRE-GARNOLDS1 +6SURY -6POOLSVL1
313810	6DAHLGREN	230.0	345	354	0.9043	0.9894	0.9300	1.0700	0.9400	1.0389	LD	887	D: 6DAHLGRE-GARNOLDS1 +6SURY -6GRAVELA1
313810	6DAHLGREN	230.0	345	354	0.9043	0.9894	0.9300	1.0700	0.9400	1.0389	LD	888	D: 6DAHLGRE-GARNOLDS1 +6SURY -6GRAVELA1
313810	6DAHLGREN	230.0	345	354	0.8866	0.9894	0.9300	1.0700	0.9400	1.0389	LD	889	D: 6DAHLGRE-GARNOLDS1 +6SURY -1SURY 11
314139	6DAHLGREN	230.0	345	354	0.9062	0.9878	0.9300	1.0700	0.9384	1.0372	LD	889	D: 6DAHLGRE-GARNOLDS1 +6SURY -1SURY 11
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	890	D: 6DAHLGRE-GARNOLDS1 +3JUNCAMP -3JUNCAM 11
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	891	D: 6DAHLGRE-GARNOLDS1 +3WATKINS-3WATK1 11
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	892	D: 6DAHLGRE-GARNOLDS1 +3WATKINS-3WATK1 21
313810	6DAHLGREN	230.0	345	354	0.9048	0.9894	0.9300	1.0700	0.9400	1.0389	LD	893	D: 6DAHLGRE-GARNOLDS1 +6GRAVELA-1GRAVEL31
313810	6DAHLGREN	230.0	345	354	0.9048	0.9894	0.9300	1.0700	0.9400	1.0389	LD	894	D: 6DAHLGRE-GARNOLDS1 +6GRAVELA-1GRAVELA1
313810	6DAHLGREN	230.0	345	354	0.9048	0.9894	0.9300	1.0700	0.9400	1.0389	LD	895	D: 6DAHLGRE-GARNOLDS1 +6GRAVELB-1GRAVEL51
313810	6DAHLGREN	230.0	345	354	0.9048	0.9894	0.9300	1.0700	0.9400	1.0389	LD	896	D: 6DAHLGRE-GARNOLDS1 +6GRAVELB-1GRAVEL61
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	897	D: 6DAHLGRE-GARNOLDS1 +6LOUQU 1-8LOUQU01
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	898	D: 6DAHLGRE-GARNOLDS1 +6MORRS 1-8MORRSVL1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	899	D: 6DAHLGRE-GARNOLDS1 +8MT ST 1-8MT STM 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	900	D: 6DAHLGRE-GARNOLDS1 +8MT ST 2-8MT STM 1
313810	6DAHLGREN	230.0	345	354	0.9046	0.9894	0.9300	1.0700	0.9400	1.0389	LD	901	D: 6DAHLGRE-GARNOLDS1 +8BRISTER-8CHANCE 1
313810	6DAHLGREN	230.0	345	354	0.9046	0.9894	0.9300	1.0700	0.9400	1.0389	LD	902	D: 6DAHLGRE-GARNOLDS1 +8BRISTER-8MORRSVL1
313810	6DAHLGREN	230.0	345	354	0.9047	0.9894	0.9300	1.0700	0.9400	1.0389	LD	903	D: 6DAHLGRE-GARNOLDS1 +8BRISTER-BOX 1
313810	6DAHLGREN	230.0	345	354	0.9047	0.9894	0.9300	1.0700	0.9400	1.0389	LD	904	D: 6DAHLGRE-GARNOLDS1 +8BATH CO-8LEXNGTW1
313810	6DAHLGREN	230.0	345	354	0.9045	0.9894	0.9300	1.0700	0.9400	1.0389	LD	905	D: 6DAHLGRE-GARNOLDS1 +8BATH CO-8VALLEY 1
313810	6DAHLGREN	230.0	345	354	0.9058	0.9894	0.9300	1.0700	0.9400	1.0389	LD	906	D: 6DAHLGRE-GARNOLDS1 + B50511 BATH 3W1 1
313810	6DAHLGREN	230.0	345	354	0.9058	0.9894	0.9300	1.0700	0.9400	1.0389	LD	907	D: 6DAHLGRE-GARNOLDS1 + B50511 BATH 3W3 1
313810	6DAHLGREN	230.0	345	354	0.9058	0.9894	0.9300	1.0700	0.9400	1.0389	LD	908	D: 6DAHLGRE-GARNOLDS1 + B50512 BATH 3W5 1
313810	6DAHLGREN	230.0	345	354	0.9029	0.9894	0.9300	1.0700	0.9400	1.0389	LD	909	D: 6DAHLGRE-GARNOLDS1 +8CARSON -8CLOVER 1
313810	6DAHLGREN	230.0	345	354	0.9045	0.9894	0.9300	1.0700	0.9400	1.0389	LD	910	D: 6DAHLGRE-GARNOLDS1 +8CARSON -8MDLTHAM1
313810	6DAHLGREN	230.0	345	354	0.9037	0.9894	0.9300	1.0700	0.9400	1.0389	LD	911	D: 6DAHLGRE-GARNOLDS1 +8CARSON -8FLVEFRK1
313810	6DAHLGREN	230.0	345	354	0.9020	0.9894	0.9300	1.0700	0.9400	1.0389	LD	912	D: 6DAHLGRE-GARNOLDS1 +8CARSON -8SULFOLK1
314139	6DAHLGREN	230.0	345	354	0.9087	0.9878	0.9300	1.0700	0.9384	1.0372	LD	912	D: 6DAHLGRE-GARNOLDS1 +8CARSON -8SULFOLK1

Bus #	Bus Name	KV	A-area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.9037	0.9894	0.9300	1.0700	0.9400	1.0389	LD	913	D: 6DAHLGRE-GARNOLDS1 +8CHCKAHM-8ELMONT 1
313810	6DAHLGREN	230.0	345	354	0.8996	0.9894	0.9300	1.0700	0.9400	1.0389	LD	914	D: 6DAHLGRE-GARNOLDS1 +8CHCKAHM-8SURREY 1
314139	6DAHLGROV	230.0	345	354	0.9072	0.9878	0.9300	1.0700	0.9384	1.0372	LD	914	D: 6DAHLGRE-GARNOLDS1 +8CHCKAHM-8SURREY 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	915	D: 6DAHLGRE-GARNOLDS1 +8CLIFTON-8LOUOUMH1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	916	D: 6DAHLGRE-GARNOLDS1 +8CLIFTON-8OX 1
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	917	D: 6DAHLGRE-GARNOLDS1 +8CHANCE-8LDYSMTN1
313810	6DAHLGREN	230.0	345	354	0.9074	0.9894	0.9300	1.0700	0.9400	1.0389	LD	918	D: 6DAHLGRE-GARNOLDS1 +8DOOMS-8CUNNING1
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	919	D: 6DAHLGRE-GARNOLDS1 +8DOOMS-8LEXNGT1
313810	6DAHLGREN	230.0	345	354	0.9051	0.9894	0.9300	1.0700	0.9400	1.0389	LD	920	D: 6DAHLGRE-GARNOLDS1 +8DOOMS-8VALLEY 1
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	921	D: 6DAHLGRE-GARNOLDS1 +8ELMONT-8CUNNING1
313810	6DAHLGREN	230.0	345	354	0.9056	0.9894	0.9300	1.0700	0.9400	1.0389	LD	922	D: 6DAHLGRE-GARNOLDS1 +8FENTRES-8YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.9040	0.9894	0.9300	1.0700	0.9400	1.0389	LD	923	D: 6DAHLGRE-GARNOLDS1 +8LOUOUMH-8MORRISV1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	924	D: 6DAHLGRE-GARNOLDS1 +8CUNNING-1CUNINGA1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	925	D: 6DAHLGRE-GARNOLDS1 +8CUNNING-1CUNINGB1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	926	D: 6DAHLGRE-GARNOLDS1 +8CUNNING-1CUNINGC1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	927	D: 6DAHLGRE-GARNOLDS1 +8CUNNING-1CUNINGD1
313810	6DAHLGREN	230.0	345	354	0.9040	0.9894	0.9300	1.0700	0.9400	1.0389	LD	928	D: 6DAHLGRE-GARNOLDS1 +8LDYSMTN-8NO ANNA1
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	929	D: 6DAHLGRE-GARNOLDS1 +8LOUOUMH-8MORRISV1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	930	D: 6DAHLGRE-GARNOLDS1 +8LOUOUMH-8MORRISV1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	931	D: 6DAHLGRE-GARNOLDS1 +8LOUOUMH-8MORRISV1
313810	6DAHLGREN	230.0	345	354	0.9045	0.9894	0.9300	1.0700	0.9400	1.0389	LD	932	D: 6DAHLGRE-GARNOLDS1 +8MOLTHAN-8NO ANNA1
313810	6DAHLGREN	230.0	345	354	0.9033	0.9894	0.9300	1.0700	0.9400	1.0389	LD	933	D: 6DAHLGRE-GARNOLDS1 +8FIVEFRK-8SEPTA 1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	934	D: 6DAHLGRE-GARNOLDS1 +8MORRISV1-8NO ANNA1
313810	6DAHLGREN	230.0	345	354	0.9043	0.9894	0.9300	1.0700	0.9400	1.0389	LD	935	D: 6DAHLGRE-GARNOLDS1 +8MORRISV1-8FRONT R1
313810	6DAHLGREN	230.0	345	354	0.9046	0.9894	0.9300	1.0700	0.9400	1.0389	LD	936	D: 6DAHLGRE-GARNOLDS1 +8MT STM-8VALLEY 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	937	D: 6DAHLGRE-GARNOLDS1 +8MT STM-3M STORM1
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	938	D: 6DAHLGRE-GARNOLDS1 +8MT STM-1MT STM1
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	939	D: 6DAHLGRE-GARNOLDS1 +8MT STM-1MT STM2
313810	6DAHLGREN	230.0	345	354	0.9054	0.9894	0.9300	1.0700	0.9400	1.0389	LD	940	D: 6DAHLGRE-GARNOLDS1 +8MT STM-1MT STM3
313810	6DAHLGREN	230.0	345	354	0.9045	0.9894	0.9300	1.0700	0.9400	1.0389	LD	941	D: 6DAHLGRE-GARNOLDS1 +8NO ANNA-1N ANNA1
313810	6DAHLGREN	230.0	345	354	0.9044	0.9894	0.9300	1.0700	0.9400	1.0389	LD	942	D: 6DAHLGRE-GARNOLDS1 +8NO ANNA-1N ANNA2
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	943	D: 6DAHLGRE-GARNOLDS1 +8OX-8POSSUM 1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	944	D: 6DAHLGRE-GARNOLDS1 +3M STORM-3N BRANCH1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	945	D: 6DAHLGRE-GARNOLDS1 +8SEPTA-8SURREY 1
313810	6DAHLGREN	230.0	345	354	0.9021	0.9894	0.9300	1.0700	0.9400	1.0389	LD	946	D: 6DAHLGRE-GARNOLDS1 +8SEPTA-8YADKIN 1
314139	6DAHLGROV	230.0	345	354	0.9097	0.9878	0.9300	1.0700	0.9384	1.0372	LD	946	D: 6DAHLGRE-GARNOLDS1 +8SEPTA-8YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	947	D: 6DAHLGRE-GARNOLDS1 +8SURREY-8SULFOLK1
313810	6DAHLGREN	230.0	345	354	0.9066	0.9894	0.9300	1.0700	0.9400	1.0389	LD	948	D: 6DAHLGRE-GARNOLDS1 +8SURREY-1SURREY 21
314139	6DAHLGROV	230.0	345	354	0.9082	0.9878	0.9300	1.0700	0.9384	1.0372	LD	948	D: 6DAHLGRE-GARNOLDS1 +8SURREY-1SURREY 21
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	949	D: 6DAHLGRE-GARNOLDS1 +8PL VIEW-8BRAMEL1
313810	6DAHLGREN	230.0	345	354	0.9047	0.9894	0.9300	1.0700	0.9400	1.0389	LD	950	D: 6DAHLGRE-GARNOLDS1 +8YADKIN-8SULFOLK1
313810	6DAHLGREN	230.0	345	354	0.9053	0.9894	0.9300	1.0700	0.9400	1.0389	LD	951	D: 6DAHLGRE-GARNOLDS1 +8FRONT R-1FRONT RY1
313810	6DAHLGREN	230.0	345	354	0.9049	0.9894	0.9300	1.0700	0.9400	1.0389	LD	952	D: 6DAHLGRE-GARNOLDS1 +8YADKIN-8SULFOLK1
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	953	D: 6DAHLGRE-GARNOLDS1 +3YADKIN-6YADKIN 2
313810	6DAHLGREN	230.0	345	354	0.9052	0.9894	0.9300	1.0700	0.9400	1.0389	LD	954	D: 6DAHLGRE-GARNOLDS1 +3CHESAPK-6CHESAPK2
314180	GHAVES	230.0	345	354	0.9092	1.0085	0.9300	1.0700	0.9581	1.0589	LD	979	D: 6DAHLGRE-GAOKROV1 +6HAYES-6YORKTWN1
314176	GHARMONY	230.0	345	354	0.9038	1.0040	0.9300	1.0700	0.9538	1.0542	LD	1008	D: 6DAHLGRE-GAOKROV1 +6CORRECTN-6LANEXA 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314189	GPAPERMILL	230.0	345	354	0.8976	1.0014	0.9300	1.0700	0.9513	1.0515	LD	1008	D:6DAHLGREN-6OAKGROV1 +6CORRTN-6LANEXA 1
314375	6CORRTN	230.0	345	354	0.8972	1.0020	0.9300	1.0700	0.9519	1.0521	LD	1008	D:6DAHLGREN-6OAKGROV1 +6CORRTN-6LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.8965	0.9894	0.9300	1.0700	0.9400	1.0389	LD	1277	D:6ROCKLAN-6WARWICK1 +6ARNOLDS-6COMORN 1
314131	6ARNOLDS	230.0	345	354	0.8959	0.9954	0.9300	1.0700	0.9457	1.0452	LD	1277	D:6ROCKLAN-6WARWICK1 +6ARNOLDS-6COMORN 1
314139	6OAKGROV	230.0	345	354	0.9045	0.9878	0.9300	1.0700	0.9384	1.0372	LD	1277	D:6ROCKLAN-6WARWICK1 +6ARNOLDS-6COMORN 1
314190	6WESTMOR	230.0	345	354	0.9094	0.9863	0.9300	1.0700	0.9370	1.0356	LD	1277	D:6ROCKLAN-6WARWICK1 +6ARNOLDS-6COMORN 1
314131	6ARNOLDS	230.0	345	354	0.8893	0.9894	0.9300	1.0700	0.9400	1.0389	LD	1278	D:6ROCKLAN-6WARWICK1 +6BIRCHWD-6COMORN 1
314139	6OAKGROV	230.0	345	354	0.8980	0.9878	0.9300	1.0700	0.9384	1.0372	LD	1278	D:6ROCKLAN-6WARWICK1 +6BIRCHWD-6COMORN 1
314175	6COMORN	230.0	345	354	0.8884	0.9963	0.9300	1.0700	0.9465	1.0461	LD	1278	D:6ROCKLAN-6WARWICK1 +6BIRCHWD-6COMORN 1
314182	6BONHECK	230.0	345	354	0.9095	0.9844	0.9300	1.0700	0.9352	1.0337	LD	1278	D:6ROCKLAN-6WARWICK1 +6BIRCHWD-6COMORN 1
314183	6SANDERS	230.0	345	354	0.9067	0.9848	0.9300	1.0700	0.9356	1.0341	LD	1278	D:6ROCKLAN-6WARWICK1 +6BIRCHWD-6COMORN 1
314190	6WESTMOR	230.0	345	354	0.9034	0.9863	0.9300	1.0700	0.9370	1.0356	LD	1278	D:6ROCKLAN-6WARWICK1 +6BIRCHWD-6COMORN 1
314180	6HAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	1294	D:6ROCKLAN-6WARWICK1 +6HAYES -6YORKTWN1
314189	GPAPERMILL	230.0	345	354	0.9045	1.0014	0.9300	1.0700	0.9513	1.0515	LD	1323	D:6ROCKLAN-6WARWICK1 +6CORRTN-6LANEXA 1
314375	6CORRTN	230.0	345	354	0.9042	1.0020	0.9300	1.0700	0.9519	1.0521	LD	1323	D:6ROCKLAN-6WARWICK1 +6CORRTN-6LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.8981	0.9894	0.9300	1.0700	0.9400	1.0389	LD	1591	D:6ROCKLAN-6YORKTWN1 +6ARNOLDS-6COMORN 1
314131	6ARNOLDS	230.0	345	354	0.8976	0.9954	0.9300	1.0700	0.9457	1.0452	LD	1591	D:6ROCKLAN-6YORKTWN1 +6ARNOLDS-6COMORN 1
314139	6OAKGROV	230.0	345	354	0.9061	0.9878	0.9300	1.0700	0.9384	1.0372	LD	1591	D:6ROCKLAN-6YORKTWN1 +6ARNOLDS-6COMORN 1
314190	6WESTMOR	230.0	345	354	0.9056	0.9848	0.9300	1.0700	0.9356	1.0341	LD	1592	D:6ROCKLAN-6YORKTWN1 +6BIRCHWD-6COMORN 1
314180	6HAYES	230.0	345	354	0.9053	1.0085	0.9300	1.0700	0.9581	1.0589	LD	1592	D:6ROCKLAN-6YORKTWN1 +6HAYES -6YORKTWN1
314176	6HAWKINS	230.0	345	354	0.9024	1.0040	0.9300	1.0700	0.9538	1.0542	LD	1637	D:6ROCKLAN-6YORKTWN1 +6CORRTN-6LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8961	1.0014	0.9300	1.0700	0.9513	1.0515	LD	1637	D:6ROCKLAN-6YORKTWN1 +6CORRTN-6LANEXA 1
314375	6CORRTN	230.0	345	354	0.8958	1.0020	0.9300	1.0700	0.9519	1.0521	LD	1637	D:6ROCKLAN-6YORKTWN1 +6CORRTN-6LANEXA 1
313812	6ROCKLAND	230.0	345	356	0.8861	1.0034	0.9300	1.0700	0.9511	1.0513	LD	1686	D:6ROCKLAN-6YORKTWN1 +6WINCHST-6POOLSVAL 1
314416	6WARWICK	230.0	345	356	0.8865	1.0016	0.9300	1.0700	0.9516	1.0517	LD	1686	D:6ROCKLAN-6YORKTWN1 +6WINCHST-6POOLSVAL 1
314418	6WHHEALTN	230.0	345	356	0.8891	1.0014	0.9300	1.0700	0.9513	1.0515	LD	1686	D:6ROCKLAN-6YORKTWN1 +6WINCHST-6POOLSVAL 1
314421	6WINCHST	230.0	345	356	0.8889	1.0012	0.9300	1.0700	0.9511	1.0513	LD	1686	D:6ROCKLAN-6YORKTWN1 +6WINCHST-6POOLSVAL 1
314445	6WHHEAL 1	230.0	345	356	0.8909	1.0034	0.9300	1.0700	0.9533	1.0536	LD	1686	D:6ROCKLAN-6YORKTWN1 +6WINCHST-6POOLSVAL 1
313812	6ROCKLAND	230.0	345	356	0.8894	1.0020	0.9300	1.0700	0.9519	1.0521	LD	1831	D:6ROCKLAN-6YORKTWN1 +6SURREY -6POOLSVAL 1
314416	6WARWICK	230.0	345	356	0.8898	1.0016	0.9300	1.0700	0.9516	1.0517	LD	1831	D:6ROCKLAN-6YORKTWN1 +6SURREY -6POOLSVAL 1
314418	6WHHEALTN	230.0	345	356	0.8925	1.0014	0.9300	1.0700	0.9513	1.0515	LD	1831	D:6ROCKLAN-6YORKTWN1 +6SURREY -6POOLSVAL 1
314421	6WINCHST	230.0	345	356	0.8923	1.0012	0.9300	1.0700	0.9511	1.0513	LD	1831	D:6ROCKLAN-6YORKTWN1 +6SURREY -6POOLSVAL 1
314445	6WHHEAL 1	230.0	345	356	0.8943	1.0034	0.9300	1.0700	0.9533	1.0536	LD	1831	D:6ROCKLAN-6YORKTWN1 +6SURREY -6POOLSVAL 1
314540	6POOLSVAL	230.0	345	360	0.8947	1.0054	0.9300	1.0700	0.9522	1.0557	LD	1831	D:6ROCKLAN-6YORKTWN1 +6SURREY -6POOLSVAL 1
313810	6DAHLGREN	230.0	345	354	0.9093	0.9894	0.9300	1.0700	0.9400	1.0389	LD	1904	D:6ROCKLAN-6WARWICK1 +6ARNOLDS-6COMORN 1
314131	6ARNOLDS	230.0	345	354	0.9088	0.9954	0.9300	1.0700	0.9457	1.0452	LD	1904	D:6ROCKLAN-6WARWICK1 +6ARNOLDS-6COMORN 1
313810	6DAHLGREN	230.0	345	354	0.9032	0.9894	0.9300	1.0700	0.9400	1.0389	LD	1905	D:6ROCKLAN-6WARWICK1 +6BIRCHWD-6COMORN 1
314131	6ARNOLDS	230.0	345	354	0.9024	0.9954	0.9300	1.0700	0.9457	1.0452	LD	1905	D:6ROCKLAN-6WARWICK1 +6BIRCHWD-6COMORN 1
314175	6COMORN	230.0	345	354	0.9024	0.9963	0.9300	1.0700	0.9465	1.0461	LD	1905	D:6ROCKLAN-6WARWICK1 +6BIRCHWD-6COMORN 1
314180	6HAYES	230.0	345	354	0.9089	1.0085	0.9300	1.0700	0.9581	1.0589	LD	1921	D:6ROCKLAN-6WARWICK1 +6HAYES -6YORKTWN1
314189	GPAPERMILL	230.0	345	354	0.9076	1.0014	0.9300	1.0700	0.9513	1.0515	LD	1950	D:6ROCKLAN-6WARWICK1 +6CORRTN-6LANEXA 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	Voltrise	Viol	Ncon	Contingency Description
314375	6CORRTN	230.0	345	354	0.9072	1.0020	0.9300	1.0700	0.9519	1.0521	LD	1950	D:30CRAN -3LANCAST1 +6CORRTN-6LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.8594	0.9894	0.9300	1.0700	0.9400	1.0389	LD	2216	D:6BENCHRC-6NP NEWS1 +6ARNOLD5-6COMORN 1
314131	6ARNOLD5	230.0	345	354	0.8588	0.9954	0.9300	1.0700	0.9457	1.0452	LD	2216	D:6BENCHRC-6NP NEWS1 +6ARNOLD5-6COMORN 1
314139	6OAGKROV	230.0	345	354	0.8679	0.9878	0.9300	1.0700	0.9384	1.0372	LD	2216	D:6BENCHRC-6NP NEWS1 +6ARNOLD5-6COMORN 1
314172	6DUNNSVL	230.0	345	354	0.8929	0.9881	0.9300	1.0700	0.9387	1.0376	LD	2216	D:6BENCHRC-6NP NEWS1 +6ARNOLD5-6COMORN 1
314182	6NORNECK	230.0	345	354	0.8792	0.9844	0.9300	1.0700	0.9352	1.0341	LD	2216	D:6BENCHRC-6NP NEWS1 +6ARNOLD5-6COMORN 1
314183	6SANDERS	230.0	345	354	0.8765	0.9848	0.9300	1.0700	0.9356	1.0341	LD	2216	D:6BENCHRC-6NP NEWS1 +6ARNOLD5-6COMORN 1
314190	6WESTMOR	230.0	345	354	0.8732	0.9863	0.9300	1.0700	0.9370	1.0356	LD	2216	D:6BENCHRC-6NP NEWS1 +6ARNOLD5-6COMORN 1
313810	6DAHLGREN	230.0	345	354	0.8510	0.9894	0.9300	1.0700	0.9400	1.0389	LD	2217	D:6BENCHRC-6NP NEWS1 +6BIRCHWD-6COMORN 1
314131	6ARNOLD5	230.0	345	354	0.8501	0.9954	0.9300	1.0700	0.9457	1.0452	LD	2217	D:6BENCHRC-6NP NEWS1 +6BIRCHWD-6COMORN 1
314139	6OAGKROV	230.0	345	354	0.8603	0.9878	0.9300	1.0700	0.9384	1.0372	LD	2217	D:6BENCHRC-6NP NEWS1 +6BIRCHWD-6COMORN 1
314172	6DUNNSVL	230.0	345	354	0.8873	0.9881	0.9300	1.0700	0.9387	1.0376	LD	2217	D:6BENCHRC-6NP NEWS1 +6BIRCHWD-6COMORN 1
314175	6COMORN	230.0	345	354	0.8500	0.9963	0.9300	1.0700	0.9465	1.0461	LD	2217	D:6BENCHRC-6NP NEWS1 +6BIRCHWD-6COMORN 1
314182	6NORNECK	230.0	345	354	0.8728	0.9844	0.9300	1.0700	0.9352	1.0337	LD	2217	D:6BENCHRC-6NP NEWS1 +6BIRCHWD-6COMORN 1
314183	6SANDERS	230.0	345	354	0.8698	0.9848	0.9300	1.0700	0.9356	1.0341	LD	2217	D:6BENCHRC-6NP NEWS1 +6BIRCHWD-6COMORN 1
314190	6WESTMOR	230.0	345	354	0.8661	0.9863	0.9300	1.0700	0.9370	1.0356	LD	2217	D:6BENCHRC-6NP NEWS1 +6BIRCHWD-6COMORN 1
314180	6HAYES	230.0	345	354	0.9074	1.0085	0.9300	1.0700	0.9581	1.0589	LD	2233	D:6BENCHRC-6NP NEWS1 +6HAYES -6VORTWNL
314176	6HAWONY	230.0	345	354	0.8829	1.0040	0.9300	1.0700	0.9538	1.0542	LD	2262	D:6BENCHRC-6NP NEWS1 +6CORRTN-6LANEXA 1
314189	6PAFERMILL	230.0	345	354	0.8775	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2262	D:6BENCHRC-6NP NEWS1 +6CORRTN-6LANEXA 1
314375	6CORRTN	230.0	345	354	0.8772	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2262	D:6BENCHRC-6NP NEWS1 +6CORRTN-6LANEXA 1
314396	6NNW58	115.0	345	356	0.9024	0.9816	0.9300	1.0700	0.9325	1.0307	LD	2275	D:6BENCHRC-6NP NEWS1 +3LANEXA -3NNW581
314411	6TOANOS8	115.0	345	356	0.9034	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2275	D:6BENCHRC-6NP NEWS1 +3LANEXA -3NNW581
313812	6BROCKLAND	230.0	345	356	0.9070	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314296	6BENNLINAN	230.0	345	356	0.9027	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314386	6KINGS M	230.0	345	356	0.9043	1.0017	0.9300	1.0700	0.9516	1.0518	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314391	6LIGH209	230.0	345	356	0.8988	0.9991	0.9300	1.0700	0.9491	1.0490	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314398	6NP NEWS	230.0	345	356	0.8913	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314399	6FEMBROK	230.0	345	356	0.8900	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314402	6FENINSL	230.0	345	356	0.8926	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314407	6SHELK	230.0	345	356	0.8888	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314409	6TABB	230.0	345	356	0.8988	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314415	6WALR209	230.0	345	356	0.8997	0.9989	0.9300	1.0700	0.9490	1.0489	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314416	6WAWTICK	230.0	345	356	0.9066	1.0016	0.9300	1.0700	0.9516	1.0517	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314418	6WHEALTN	230.0	345	356	0.9062	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314421	6WINCHST	230.0	345	356	0.9064	1.0012	0.9300	1.0700	0.9511	1.0513	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314442	6NP NE 1	230.0	345	356	0.8921	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314445	6WHEAL 1	230.0	345	356	0.9080	1.0034	0.9300	1.0700	0.9533	1.0536	LD	2278	D:6BENCHRC-6NP NEWS1 +6LANEXA -6LIGH2091
314398	6NP NEWS	230.0	345	356	0.8956	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314399	6FEMBROK	230.0	345	356	0.8942	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314402	6FENINSL	230.0	345	356	0.8988	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314407	6SHELK	230.0	345	356	0.8930	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314409	6TABB	230.0	345	356	0.9030	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314413	6WALR285	230.0	345	356	0.9062	0.9966	0.9300	1.0700	0.9467	1.0464	LD	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314416	6WAWTICK	230.0	345	356	0.9097	1.0016	0.9300	1.0700	0.9516	1.0517	LD	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314418	6WHEALTN	230.0	345	356	0.9089	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314421	6WINCHST	230.0	345	356	0.9090	1.0012	0.9300	1.0700	0.9511	1.0513	LD	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851
314442	6NP NE 1	230.0	345	356	0.8974	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2281	D:6BENCHRC-6NP NEWS1 +6LIGH285-6WALR2851

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314398	GNP NEWS	230.0	345	356	0.9040	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2282	D:6BENCHRC-GNP NEWS1 +6LIGH209-6WALR2091
314399	GNP NEWS	230.0	345	356	0.9026	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2282	D:6BENCHRC-GNP NEWS1 +6LIGH209-6WALR2091
314400	GNP NEWS	230.0	345	356	0.9056	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2282	D:6BENCHRC-GNP NEWS1 +6LIGH209-6WALR2091
314401	GNP NEWS	230.0	345	356	0.9024	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2282	D:6BENCHRC-GNP NEWS1 +6LIGH209-6WALR2091
314402	GNP NEWS	230.0	345	356	0.9058	1.0094	0.9300	1.0700	0.9589	1.0589	LD	2282	D:6BENCHRC-GNP NEWS1 +6LIGH209-6WALR2091
314411	GNP NEWS	230.0	345	356	0.9034	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2288	D:6BENCHRC-GNP NEWS1 +3NNW558-3TORA0581
314398	GNP NEWS	230.0	345	356	0.9026	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2290	D:6BENCHRC-GNP NEWS1 +6NP NEWS-6NP NE 11
314399	GNP NEWS	230.0	345	356	0.9044	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2290	D:6BENCHRC-GNP NEWS1 +6NP NEWS-6NP NE 11
314407	GNP NEWS	230.0	345	356	0.9064	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2290	D:6BENCHRC-GNP NEWS1 +6NP NEWS-6NP NE 11
314398	GNP NEWS	230.0	345	356	0.8767	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2297	D:6BENCHRC-GNP NEWS1 +6PENINSLS-6SHELBNK1
314399	GNP NEWS	230.0	345	356	0.8774	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2297	D:6BENCHRC-GNP NEWS1 +6PENINSLS-6SHELBNK1
314407	GNP NEWS	230.0	345	356	0.8763	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2297	D:6BENCHRC-GNP NEWS1 +6PENINSLS-6SHELBNK1
314442	GNP NEWS	230.0	345	356	0.8804	1.0094	0.9300	1.0700	0.9589	1.0589	LD	2297	D:6BENCHRC-GNP NEWS1 +6PENINSLS-6SHELBNK1
314398	GNP NEWS	230.0	345	356	0.8585	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2298	D:6BENCHRC-GNP NEWS1 +6PENINSLS-6TABB 1
314399	GNP NEWS	230.0	345	356	0.8574	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2298	D:6BENCHRC-GNP NEWS1 +6PENINSLS-6TABB 1
314402	GNP NEWS	230.0	345	356	0.8563	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2298	D:6BENCHRC-GNP NEWS1 +6PENINSLS-6TABB 1
314407	GNP NEWS	230.0	345	356	0.8564	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2298	D:6BENCHRC-GNP NEWS1 +6PENINSLS-6TABB 1
314442	GNP NEWS	230.0	345	356	0.8602	1.0094	0.9300	1.0700	0.9589	1.0589	LD	2298	D:6BENCHRC-GNP NEWS1 +6PENINSLS-6TABB 1
314372	GNP NEWS	115.0	345	356	0.9026	0.9896	0.9300	1.0700	0.9401	1.0391	LD	2303	D:6BENCHRC-GNP NEWS1 +6TABB -6YORKTWN1
314393	GNP NEWS	115.0	345	356	0.9093	0.9958	0.9300	1.0700	0.9460	1.0456	LD	2303	D:6BENCHRC-GNP NEWS1 +6TABB -6YORKTWN1
314398	GNP NEWS	230.0	345	356	0.8135	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2303	D:6BENCHRC-GNP NEWS1 +6TABB -6YORKTWN1
314399	GNP NEWS	230.0	345	356	0.8126	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2303	D:6BENCHRC-GNP NEWS1 +6TABB -6YORKTWN1
314402	GNP NEWS	230.0	345	356	0.8110	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2303	D:6BENCHRC-GNP NEWS1 +6TABB -6YORKTWN1
314407	GNP NEWS	230.0	345	356	0.8140	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2303	D:6BENCHRC-GNP NEWS1 +6TABB -6YORKTWN1
314409	GNP NEWS	230.0	345	356	0.8092	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2303	D:6BENCHRC-GNP NEWS1 +6TABB -6YORKTWN1
314418	GNP NEWS	230.0	345	356	0.9096	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2303	D:6BENCHRC-GNP NEWS1 +6TABB -6YORKTWN1
314421	GNP NEWS	230.0	345	356	0.9088	1.0012	0.9300	1.0700	0.9511	1.0513	LD	2303	D:6BENCHRC-GNP NEWS1 +6TABB -6YORKTWN1
314442	GNP NEWS	230.0	345	356	0.8451	1.0094	0.9300	1.0700	0.9589	1.0589	LD	2303	D:6BENCHRC-GNP NEWS1 +6TABB -6YORKTWN1
313812	GNP NEWS	230.0	345	356	0.8865	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314180	GNP NEWS	230.0	345	354	0.8963	1.0085	0.9300	1.0700	0.9581	1.0589	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314296	GNP NEWS	230.0	345	356	0.9048	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314376	GNP NEWS	230.0	345	356	0.8969	1.0025	0.9300	1.0700	0.9524	1.0526	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314386	GNP NEWS	230.0	345	356	0.9031	1.0017	0.9300	1.0700	0.9516	1.0518	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314398	GNP NEWS	230.0	345	356	0.8718	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314399	GNP NEWS	230.0	345	356	0.8706	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314402	GNP NEWS	230.0	345	356	0.8740	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314407	GNP NEWS	230.0	345	356	0.8655	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314409	GNP NEWS	230.0	345	356	0.8807	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314413	GNP NEWS	230.0	345	356	0.9052	0.9966	0.9300	1.0700	0.9467	1.0464	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314415	GNP NEWS	230.0	345	356	0.9086	0.9989	0.9300	1.0700	0.9490	1.0489	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314416	GNP NEWS	230.0	345	356	0.8877	1.0016	0.9300	1.0700	0.9516	1.0517	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314418	GNP NEWS	230.0	345	356	0.8838	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314423	GNP NEWS	230.0	345	356	0.8969	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314442	GNP NEWS	230.0	345	356	0.8735	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314445	GNP NEWS	230.0	345	356	0.8826	1.0034	0.9300	1.0700	0.9533	1.0536	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
314450	GNP NEWS	230.0	345	356	0.8999	1.0105	0.9300	1.0700	0.9599	1.0610	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1
315092	GNP NEWS	25.0	345	356	0.8969	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2309	D:6BENCHRC-GNP NEWS1 +6WHEALTIN-6WINCHST1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313811	6ELKO L284	230.0	345	355	0.8660	1.0062	0.9300	1.0700	0.9559	1.0565	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
313812	6ROCKLAND	230.0	345	356	0.5252	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
313813	3OCGRAN	115.0	345	354	0.8066	0.9862	0.9300	1.0700	0.9369	1.0355	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
313828	3WHITEMARE	115.0	345	354	0.5879	0.9983	0.9300	1.0700	0.9484	1.0482	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314139	6OARGROV	230.0	345	354	0.8760	0.9878	0.9300	1.0700	0.9384	1.0372	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314172	6DUNNSVL	230.0	345	354	0.8466	0.9881	0.9300	1.0700	0.9397	1.0376	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314173	3GARNER	115.0	345	354	0.8123	0.9890	0.9300	1.0700	0.9395	1.0384	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314174	3HARMONY	115.0	345	354	0.8286	0.9972	0.9300	1.0700	0.9473	1.0471	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314176	6HARMONY	230.0	345	354	0.7599	1.0040	0.9300	1.0700	0.9538	1.0542	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314177	3HAYES89	115.0	345	354	0.5667	0.9984	0.9300	1.0700	0.9484	1.0483	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314178	3BLANCAST	115.0	345	354	0.8015	0.9870	0.9300	1.0700	0.9376	1.0363	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314180	6HAYES	230.0	345	354	0.5556	1.0085	0.9300	1.0700	0.9581	1.0589	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314181	3BORNICK	115.0	345	354	0.8399	1.0035	0.9300	1.0700	0.9533	1.0537	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314182	6GNORCK	230.0	345	354	0.8913	0.9844	0.9300	1.0700	0.9352	1.0337	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314183	6SANDERS	230.0	345	354	0.8398	0.9844	0.9300	1.0700	0.9356	1.0341	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314184	3SIACKLE	115.0	345	354	0.6740	0.9935	0.9300	1.0700	0.9438	1.0431	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314187	3WAN 176	115.0	345	354	0.6202	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314188	3WEST PT	115.0	345	354	0.6823	0.9916	0.9300	1.0700	0.9420	1.0412	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314189	6PAPERMILL	230.0	345	354	0.7495	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314190	6WESTHOR	230.0	345	354	0.8544	0.9863	0.9300	1.0700	0.9370	1.0356	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314191	3WHITE S	115.0	345	354	0.6539	0.9942	0.9300	1.0700	0.9444	1.0439	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314214	6CHICHAH	230.0	345	355	0.8624	1.0084	0.9300	1.0700	0.9580	1.0589	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314241	6OLDCHRC	230.0	345	355	0.9031	1.0023	0.9300	1.0700	0.9522	1.0524	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314243	3PROV 92	115.0	345	355	0.7597	0.9923	0.9300	1.0700	0.9427	1.0419	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314252	3TURNER92	115.0	345	355	0.8710	0.9918	0.9300	1.0700	0.9422	1.0413	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314253	6TURNER	230.0	345	355	0.9072	1.0031	0.9300	1.0700	0.9548	1.0553	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314257	6WHITOK	230.0	345	355	0.8834	1.0063	0.9300	1.0700	0.9560	1.0567	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314258	6ELKO	230.0	345	355	0.8809	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314271	6GALLIED	230.0	345	357	0.9026	1.0066	0.9300	1.0700	0.9563	1.0569	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314272	6PALPINE	230.0	345	357	0.9005	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314281	6BURDET	230.0	345	357	0.9053	1.0067	0.9300	1.0700	0.9563	1.0570	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314294	6ENON	230.0	345	357	0.9098	1.0069	0.9300	1.0700	0.9566	1.0572	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314296	6PENNINGAN	230.0	345	356	0.6226	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314308	61C1	230.0	345	357	0.8377	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314371	3AMOCO Y	115.0	345	356	0.5200	0.9851	0.9300	1.0700	0.9358	1.0343	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314372	3BLOXOMC	115.0	345	356	0.4806	0.9896	0.9300	1.0700	0.9401	1.0391	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314373	3COLONY	115.0	345	356	0.4961	0.9842	0.9300	1.0700	0.9350	1.0334	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314374	3COPELAND	115.0	345	356	0.5024	0.9963	0.9300	1.0700	0.9465	1.0461	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314379	6CORRTN	230.0	345	354	0.7297	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314376	6DENBETH	230.0	345	356	0.7229	1.0025	0.9300	1.0700	0.9524	1.0526	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314377	3DOW 34	115.0	345	356	0.5965	0.9865	0.9300	1.0700	0.9371	1.0358	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314378	3FEUS34	115.0	345	356	0.5648	0.9840	0.9300	1.0700	0.9346	1.0332	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314379	3FEUS58	115.0	345	356	0.5218	0.9704	0.9300	1.0700	0.9219	1.0189	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314381	3GRAFT34	115.0	345	356	0.5379	0.9829	0.9300	1.0700	0.9338	1.0321	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314382	3GRAFT58	115.0	345	356	0.5260	0.9767	0.9300	1.0700	0.9278	1.0255	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314384	3KINGS M	115.0	345	356	0.5473	0.9665	0.9300	1.0700	0.9181	1.0148	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1
314385	3HARMO 1	115.0	345	354	0.6590	0.9979	0.9300	1.0700	0.9480	1.0478	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6POOLSVL1

Bus #	Bus Name	KV	Area	Zone	ContVlt	BaseVlt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314386	6KINGS M	230.0	345	356	0.6204	1.0017	0.9300	1.0700	0.9516	1.0518	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314387	3LANEVA	115.0	345	356	0.7064	0.9930	0.9300	1.0700	0.9434	1.0427	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314388	6LANEVA	230.0	345	356	0.7726	1.0032	0.9300	1.0700	0.9530	1.0533	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314389	3LEBRAN58	115.0	345	356	0.5341	0.9681	0.9300	1.0700	0.9197	1.0165	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314390	6LIGH285	230.0	345	356	0.6579	0.9968	0.9300	1.0700	0.9469	1.0466	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314391	6LIGH209	230.0	345	356	0.6762	0.9991	0.9300	1.0700	0.9491	1.0490	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314392	3MAGRODR	115.0	345	356	0.5005	0.9962	0.9300	1.0700	0.9464	1.0460	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314393	3MERCURY	115.0	345	356	0.4908	0.9958	0.9300	1.0700	0.9460	1.0460	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314394	3NADA	115.0	345	356	0.5050	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314395	3HARMO 2	115.0	345	354	0.6589	0.9977	0.9300	1.0700	0.9478	1.0476	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314396	3NNERS58	115.0	345	356	0.6474	0.9816	0.9300	1.0700	0.9325	1.0307	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314397	3NNERS75	115.0	345	356	0.5274	0.9963	0.9300	1.0700	0.9465	1.0461	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314398	6NP NEWS	230.0	345	356	0.5010	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314399	6PMBROK	230.0	345	356	0.5020	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314400	3LANCA 1	115.0	345	354	0.8019	0.9875	0.9300	1.0700	0.9381	1.0368	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314401	3PENINSL	115.0	345	356	0.5050	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314402	6PENINSL	230.0	345	356	0.5152	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314403	3SEAF076	115.0	345	356	0.5149	0.9868	0.9300	1.0700	0.9375	1.0361	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314404	3SEAF079	115.0	345	356	0.5443	0.9863	0.9300	1.0700	0.9370	1.0357	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314406	3SHELBNK	115.0	345	356	0.4998	1.0010	0.9300	1.0700	0.9509	1.0510	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314407	6SHELBNK	230.0	345	356	0.5033	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314408	6CHCKA 1	230.0	345	355	0.8650	1.0115	0.9300	1.0700	0.9609	1.0621	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314409	6TABB	230.0	345	356	0.5259	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314411	3TORNO58	115.0	345	356	0.6397	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314412	3U CARBD	115.0	345	356	0.5050	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314413	6WALR285	230.0	345	356	0.6349	0.9966	0.9300	1.0700	0.9467	1.0464	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314414	3WAPWICK	115.0	345	356	0.4976	0.9892	0.9300	1.0700	0.9397	1.0386	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314415	6WALR209	230.0	345	356	0.6477	0.9999	0.9300	1.0700	0.9490	1.0489	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314416	6WALWICK	230.0	345	356	0.5228	1.0016	0.9300	1.0700	0.9516	1.0517	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314417	3WHEALTN	115.0	345	356	0.5040	0.9972	0.9300	1.0700	0.9474	1.0471	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314418	6WHEALTN	230.0	345	356	0.5161	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314420	3PENIN 1	115.0	345	356	0.5052	0.9947	0.9300	1.0700	0.9449	1.0444	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314421	6WINCHST	230.0	345	356	0.5458	1.0012	0.9300	1.0700	0.9511	1.0513	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314422	3YORKTWN	115.0	345	356	0.5202	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314423	6YORKTWN	230.0	345	356	0.5268	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314424	3YVMS 58	115.0	345	356	0.5268	0.9675	0.9300	1.0700	0.9191	1.0159	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314425	3YORK PS	115.0	345	356	0.5207	0.9853	0.9300	1.0700	0.9361	1.0346	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314440	6LANEX 1	230.0	345	356	0.7742	1.0052	0.9300	1.0700	0.9550	1.0555	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314442	6NP NE 1	230.0	345	356	0.5020	1.0094	0.9300	1.0700	0.9599	1.0599	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314443	6WHEAL 1	230.0	345	356	0.5171	1.0034	0.9300	1.0700	0.9533	1.0536	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314450	6YORKT 1	230.0	345	356	0.5546	1.0105	0.9300	1.0700	0.9599	1.0610	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
315091	1YORKTWN2	18.0	345	356	0.5202	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
315092	1YORKTWN3	25.0	345	356	0.5258	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2311	D:6BENCHRC-6NP NEWS1 +6WINCHST-6FOOLSVLL
314398	6NP NEWS	230.0	345	356	0.9095	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2314	D:6BENCHRC-6NP NEWS1 +6YORKTWN-6YORKT 11
314399	6PMBROK	230.0	345	356	0.9081	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2314	D:6BENCHRC-6NP NEWS1 +6YORKTWN-6YORKT 11
314407	6SHELBNK	230.0	345	356	0.9068	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2314	D:6BENCHRC-6NP NEWS1 +6YORKTWN-6YORKT 11
313810	6DAHLGREN	230.0	345	354	0.9076	0.9894	0.9300	1.0700	0.9400	1.0389	LD	2456	D:6BENCHRC-6NP NEWS1 +6SUKRY -6FOOLSVLL

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313811	6ELKO L284	230.0	345	355	0.8815	1.0062	0.9300	1.0700	0.9559	1.0565	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
313812	6ROCKLAND	230.0	345	356	0.5107	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
313813	3OCCAN	115.0	345	354	0.7933	0.9662	0.9300	1.0700	0.9369	1.0355	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
313828	3WHITENAR	115.0	345	354	0.5749	0.9983	0.9300	1.0700	0.9484	1.0482	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314139	6OARGROV	230.0	345	354	0.8714	0.9878	0.9300	1.0700	0.9384	1.0372	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314172	6DUNNSVL	230.0	345	354	0.8103	0.9881	0.9300	1.0700	0.9387	1.0376	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314173	3GARNER	115.0	345	354	0.8055	0.9890	0.9300	1.0700	0.9395	1.0384	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314174	3HARMONY	115.0	345	354	0.6475	0.9972	0.9300	1.0700	0.9473	1.0471	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314176	3HARMONY	230.0	345	354	0.7106	1.0040	0.9300	1.0700	0.9538	1.0542	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314177	3HAYES89	115.0	345	354	0.5531	0.9984	0.9300	1.0700	0.9484	1.0483	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314178	3LANCAST	115.0	345	354	0.7943	0.9870	0.9300	1.0700	0.9376	1.0363	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314180	6HAYES	230.0	345	354	0.5415	1.0085	0.9300	1.0700	0.9581	1.0589	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314181	3MORNECK	115.0	345	354	0.8337	1.0035	0.9300	1.0700	0.9533	1.0537	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314182	6MORNECK	230.0	345	354	0.8256	0.9844	0.9300	1.0700	0.9352	1.0337	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314183	6SANDERS	230.0	345	354	0.8342	0.9848	0.9300	1.0700	0.9356	1.0341	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314184	3SHACKLE	115.0	345	354	0.6635	0.9935	0.9300	1.0700	0.9438	1.0431	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314187	3WAN 176	115.0	345	354	0.6187	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314188	3WEST PT	115.0	345	354	0.6722	0.9916	0.9300	1.0700	0.9420	1.0412	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314189	6PAPERMILL	230.0	345	354	0.7412	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314190	6WESTMOR	230.0	345	354	0.8493	0.9863	0.9300	1.0700	0.9370	1.0356	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314191	3WHITE S	115.0	345	354	0.6428	0.9942	0.9300	1.0700	0.9444	1.0439	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314214	6CHICKAHM	230.0	345	355	0.8572	1.0084	0.9300	1.0700	0.9580	1.0589	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314241	6OLDCHRC	230.0	345	355	0.8992	1.0023	0.9300	1.0700	0.9522	1.0524	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314243	3PROV 92	115.0	345	355	0.7519	0.9923	0.9300	1.0700	0.9427	1.0419	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314252	3TURNER92	115.0	345	355	0.8669	0.9918	0.9300	1.0700	0.9422	1.0413	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314253	3TURNER	230.0	345	355	0.9033	1.0051	0.9300	1.0700	0.9548	1.0553	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314257	6WHITONAK	230.0	345	355	0.8789	1.0063	0.9300	1.0700	0.9560	1.0567	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314258	6ELKO	230.0	345	355	0.8783	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314271	6ALLIED	230.0	345	357	0.8993	1.0066	0.9300	1.0700	0.9563	1.0569	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314272	6CALPINE	230.0	345	357	0.8962	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314281	6BURDET	230.0	345	357	0.9011	1.0067	0.9300	1.0700	0.9563	1.0570	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314294	6ENON	230.0	345	357	0.9057	1.0069	0.9300	1.0700	0.9566	1.0572	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314296	6PENNINGMAN	230.0	345	356	0.6106	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314308	6ICI	230.0	345	357	0.8923	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314371	3AMOCO Y	115.0	345	356	0.5056	0.9851	0.9300	1.0700	0.9358	1.0343	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314372	3BLOXOMC	115.0	345	356	0.4657	0.9896	0.9300	1.0700	0.9401	1.0391	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314373	3COLONY	115.0	345	356	0.4814	0.9842	0.9300	1.0700	0.9350	1.0334	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314374	3OCEPLND	115.0	345	356	0.4878	0.9963	0.9300	1.0700	0.9465	1.0461	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314375	6CORRECTIN	230.0	345	354	0.7517	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314376	6REBIGH	230.0	345	356	0.5594	1.0025	0.9300	1.0700	0.9524	1.0526	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314377	3COW 34	115.0	345	356	0.5736	0.9865	0.9300	1.0700	0.9371	1.0358	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314378	3FTUS534	115.0	345	356	0.5514	0.9840	0.9300	1.0700	0.9348	1.0332	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314379	3FTUS58	115.0	345	356	0.5182	0.9704	0.9300	1.0700	0.9219	1.0189	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314381	3GRAFT34	115.0	345	356	0.5240	0.9829	0.9300	1.0700	0.9338	1.0321	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314382	3GRAFT58	115.0	345	356	0.5120	0.9767	0.9300	1.0700	0.9278	1.0255	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314384	3KINGS M	115.0	345	356	0.5340	0.9665	0.9300	1.0700	0.9181	1.0148	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1
314385	3HARMO 1	115.0	345	354	0.6479	0.9979	0.9300	1.0700	0.9480	1.0478	LD	2456	D:6BENCHRC-6NP NEWS1 +6SURRY -6POOLSVL1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314386	6KINGS M	230.0	345	356	0.5980	1.0017	0.9300	1.0700	0.9516	1.0518	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314387	6LANEXA	115.0	345	356	0.6970	0.9930	0.9300	1.0700	0.9434	1.0427	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314388	6LANEXA	230.0	345	356	0.7650	1.0032	0.9300	1.0700	0.9530	1.0533	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314389	6LEGANS8	115.0	345	356	0.5206	0.9681	0.9300	1.0700	0.9197	1.0165	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314390	6LIGH285	230.0	345	356	0.6471	0.9968	0.9300	1.0700	0.9469	1.0466	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314391	6LIGH209	230.0	345	356	0.6658	0.9991	0.9300	1.0700	0.9491	1.0490	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314392	3MAGROUR	115.0	345	356	0.4857	0.9962	0.9300	1.0700	0.9464	1.0460	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314393	3MERCURY	115.0	345	356	0.4750	0.9958	0.9300	1.0700	0.9460	1.0456	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314394	3NANA	115.0	345	356	0.4903	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314395	3HARMO 2	115.0	345	354	0.6478	0.9977	0.9300	1.0700	0.9478	1.0476	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314396	3NNWS58	115.0	345	356	0.6367	0.9816	0.9300	1.0700	0.9325	1.0307	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314397	3NNWS75	115.0	345	356	0.4878	0.9963	0.9300	1.0700	0.9465	1.0461	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314398	6NP NEWS	230.0	345	356	0.4861	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314399	6PEMBROK	230.0	345	356	0.4871	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314400	3LANCA 1	115.0	345	354	0.7947	0.9875	0.9300	1.0700	0.9381	1.0368	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314401	3PENINSL	115.0	345	356	0.4903	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314402	6PENINSL	230.0	345	356	0.5005	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314403	3SEAFD76	115.0	345	356	0.5004	0.9868	0.9300	1.0700	0.9375	1.0361	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314404	3SEAFD79	115.0	345	356	0.4998	0.9863	0.9300	1.0700	0.9370	1.0357	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314406	3SHLEBWK	115.0	345	356	0.4849	1.0010	0.9300	1.0700	0.9509	1.0510	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314407	6SHLEBWK	230.0	345	356	0.4895	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314408	6CHICKA 1	230.0	345	355	0.4998	1.0115	0.9300	1.0700	0.9609	1.0621	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314409	6TABB	230.0	345	356	0.5113	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314411	3TOANOS8	115.0	345	356	0.6288	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314412	30 CARD	115.0	345	356	0.4903	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314413	6WALR285	230.0	345	356	0.6235	0.9966	0.9300	1.0700	0.9467	1.0464	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314414	3WAWWICK	115.0	345	356	0.4829	0.9892	0.9300	1.0700	0.9397	1.0386	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314415	6WALR209	230.0	345	356	0.6365	0.9989	0.9300	1.0700	0.9490	1.0489	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314416	6WAWWICK	230.0	345	356	0.5084	1.0016	0.9300	1.0700	0.9516	1.0517	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314417	3WHEALTN	115.0	345	356	0.4893	0.9972	0.9300	1.0700	0.9474	1.0471	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314418	6WHEALTN	230.0	345	356	0.5018	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314420	3PENIN 1	115.0	345	356	0.4905	0.9947	0.9300	1.0700	0.9449	1.0444	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314421	6WINCHST	230.0	345	356	0.5016	1.0012	0.9300	1.0700	0.9511	1.0513	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314422	3YORKTWN	115.0	345	356	0.5058	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314423	6YORKTWN	230.0	345	356	0.5386	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314424	3YNNWS 58	115.0	345	356	0.5231	0.9675	0.9300	1.0700	0.9191	1.0159	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314425	3YORK PS	115.0	345	356	0.5063	0.9853	0.9300	1.0700	0.9361	1.0346	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314440	6LANEX 1	230.0	345	356	0.7666	1.0052	0.9300	1.0700	0.9550	1.0555	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314442	6NP NE 1	230.0	345	356	0.4871	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314445	6WHEAL 1	230.0	345	356	0.5028	1.0034	0.9300	1.0700	0.9533	1.0536	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314450	6YORKT 1	230.0	345	356	0.5404	1.0105	0.9300	1.0700	0.9599	1.0610	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
314540	6POOLSVL	230.0	345	360	0.5032	1.0054	0.9300	1.0700	0.9552	1.0557	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
315091	1YORKT2	18.0	345	356	0.5058	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
315092	1YORKT3	25.0	345	356	0.5386	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2456	D:6BENCHRC-GNP NEWS1 +6SURRY -6POOLSVL1
313810	6WHEALREN	230.0	345	354	0.8547	0.9894	0.9300	1.0700	0.9400	1.0389	LD	2527	D:6BENCHRC-GCHCKTUK1 +6ARNOLDS-6COMORN 1
314131	6ARNOLDS	230.0	345	354	0.8541	0.9954	0.9300	1.0700	0.9457	1.0452	LD	2527	D:6BENCHRC-GCHCKTUK1 +6ARNOLDS-6COMORN 1
314139	6GARGROV	230.0	345	354	0.8653	0.9878	0.9300	1.0700	0.9384	1.0372	LD	2527	D:6BENCHRC-GCHCKTUK1 +6ARNOLDS-6COMORN 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314172	60UNSVL	230.0	345	354	0.8885	0.9881	0.9300	1.0700	0.9387	1.0376	LD	2527	D: 6BENCHRC-6CHCKTUK1 +6ARNOLDS-6COMORN 1
314182	60ORNECK	230.0	345	354	0.8747	0.9844	0.9300	1.0700	0.9352	1.0337	LD	2527	D: 6BENCHRC-6CHCKTUK1 +6ARNOLDS-6COMORN 1
314183	60ANDERS	230.0	345	354	0.8719	0.9848	0.9300	1.0700	0.9356	1.0341	LD	2527	D: 6BENCHRC-6CHCKTUK1 +6ARNOLDS-6COMORN 1
314190	60WESTMOR	230.0	345	354	0.8686	0.9863	0.9300	1.0700	0.9370	1.0356	LD	2527	D: 6BENCHRC-6CHCKTUK1 +6ARNOLDS-6COMORN 1
314310	60EHLGREN	230.0	345	354	0.8458	0.9894	0.9300	1.0700	0.9400	1.0389	LD	2528	D: 6BENCHRC-6CHCKTUK1 +6BIRCHWD-6COMORN 1
314131	60ARNOLDS	230.0	345	354	0.8448	0.9954	0.9300	1.0700	0.9457	1.0452	LD	2528	D: 6BENCHRC-6CHCKTUK1 +6BIRCHWD-6COMORN 1
314172	60AGROV	230.0	345	354	0.8552	0.9878	0.9300	1.0700	0.9384	1.0372	LD	2528	D: 6BENCHRC-6CHCKTUK1 +6BIRCHWD-6COMORN 1
314172	60UNSVL	230.0	345	354	0.8852	0.9881	0.9300	1.0700	0.9387	1.0376	LD	2528	D: 6BENCHRC-6CHCKTUK1 +6BIRCHWD-6COMORN 1
314175	60COMORN	230.0	345	354	0.8447	0.9963	0.9300	1.0700	0.9465	1.0461	LD	2528	D: 6BENCHRC-6CHCKTUK1 +6BIRCHWD-6COMORN 1
314182	60ORNECK	230.0	345	354	0.8678	0.9844	0.9300	1.0700	0.9352	1.0337	LD	2528	D: 6BENCHRC-6CHCKTUK1 +6BIRCHWD-6COMORN 1
314183	60ANDERS	230.0	345	354	0.8647	0.9848	0.9300	1.0700	0.9356	1.0341	LD	2528	D: 6BENCHRC-6CHCKTUK1 +6BIRCHWD-6COMORN 1
314190	60WESTMOR	230.0	345	354	0.8610	0.9863	0.9300	1.0700	0.9370	1.0356	LD	2528	D: 6BENCHRC-6CHCKTUK1 +6BIRCHWD-6COMORN 1
314180	60HAYES	230.0	345	354	0.9021	1.0085	0.9300	1.0700	0.9581	1.0589	LD	2544	D: 6BENCHRC-6CHCKTUK1 +6HAYES -6YORKTWN1
314176	60ARMONY	230.0	345	354	0.9079	1.0040	0.9300	1.0700	0.9538	1.0542	LD	2551	D: 6BENCHRC-6CHCKTUK1 +6PAPERMT-6CORRECTIN1
314189	60PAPERMT	230.0	345	354	0.9030	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2551	D: 6BENCHRC-6CHCKTUK1 +6PAPERMT-6CORRECTIN1
314176	60ARMONY	230.0	345	354	0.8766	1.0040	0.9300	1.0700	0.9538	1.0542	LD	2573	D: 6BENCHRC-6CHCKTUK1 +6CORRECTIN-6LANEXA 1
314189	60PAPERMT	230.0	345	354	0.8701	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2573	D: 6BENCHRC-6CHCKTUK1 +6CORRECTIN-6LANEXA 1
314375	60CORCTN	230.0	345	354	0.8697	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2573	D: 6BENCHRC-6CHCKTUK1 +6CORRECTIN-6LANEXA 1
313818	60BENCHRC	230.0	345	360	0.9072	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2574	D: 6BENCHRC-6CHCKTUK1 +6DENBIGH-6WALR2851
314398	60P NEWS	230.0	345	356	0.9092	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2574	D: 6BENCHRC-6CHCKTUK1 +6DENBIGH-6WALR2851
314399	60PENBROK	230.0	345	356	0.9081	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2574	D: 6BENCHRC-6CHCKTUK1 +6DENBIGH-6WALR2851
314407	60SHELBNK	230.0	345	356	0.9071	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2574	D: 6BENCHRC-6CHCKTUK1 +6DENBIGH-6WALR2851
314384	60KINGS M	115.0	345	356	0.9091	0.9665	0.9300	1.0700	0.9181	1.0148	LD	2586	D: 6BENCHRC-6CHCKTUK1 +3LANEXA -3NNNEWS581
314396	60NNNEWS58	115.0	345	356	0.8998	0.9816	0.9300	1.0700	0.9325	1.0307	LD	2586	D: 6BENCHRC-6CHCKTUK1 +3LANEXA -3NNNEWS581
314411	60YORANOS8	115.0	345	356	0.8998	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2586	D: 6BENCHRC-6CHCKTUK1 +3LANEXA -3NNNEWS581
313812	60ROCKLAND	230.0	345	360	0.8985	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
313818	60BENCHRC	230.0	345	360	0.8778	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314180	60HAYES	230.0	345	354	0.9057	1.0085	0.9300	1.0700	0.9581	1.0589	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314296	60ENNINMAN	230.0	345	356	0.8956	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314376	60ENBIGH	230.0	345	356	0.9054	1.0025	0.9300	1.0700	0.9524	1.0526	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314386	60KINGS M	230.0	345	356	0.8951	1.0017	0.9300	1.0700	0.9516	1.0518	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314391	60LIGH209	230.0	345	356	0.8896	0.9991	0.9300	1.0700	0.9491	1.0490	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314398	60P NEWS	230.0	345	356	0.8798	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314399	60PENBROK	230.0	345	356	0.8789	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314402	60ENINSL	230.0	345	356	0.8826	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314407	60SHELBNK	230.0	345	356	0.8781	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314409	60TABB	230.0	345	356	0.8891	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314415	60ALR209	230.0	345	356	0.8905	0.9989	0.9300	1.0700	0.9490	1.0489	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314416	60WARWICK	230.0	345	356	0.8991	1.0016	0.9300	1.0700	0.9516	1.0517	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314418	60HEALTN	230.0	345	356	0.8980	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314421	60WINCHST	230.0	345	356	0.9044	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314423	60YORKTWN	230.0	345	356	0.9044	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314442	60P NE 1	230.0	345	356	0.8816	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314445	60HEAL. 1	230.0	345	356	0.8999	1.0034	0.9300	1.0700	0.9533	1.0536	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
314450	60YORKT. 1	230.0	345	356	0.9073	1.0105	0.9300	1.0700	0.9599	1.0610	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
315092	60YORKT3	25.0	345	356	0.9044	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2589	D: 6BENCHRC-6CHCKTUK1 +6LANEXA -6LIGH2091
313812	60ROCKLAND	230.0	345	356	0.9021	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2592	D: 6BENCHRC-6CHCKTUK1 +6LIGH285-6WALR2851

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313818	6BENCHRCH	230.0	345	360	0.8826	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314376	6BENBIGH	230.0	345	356	0.9041	1.0025	0.9300	1.0700	0.9524	1.0526	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314398	6NP NEWS	230.0	345	356	0.8846	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314399	6PEMBROK	230.0	345	356	0.8937	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314402	6PENINSL	230.0	345	356	0.8873	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314407	6SHELBNK	230.0	345	356	0.8829	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314409	6TABB	230.0	345	356	0.8938	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314413	6WALR285	230.0	345	356	0.8928	0.9966	0.9300	1.0700	0.9467	1.0464	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314416	6WALR285	230.0	345	356	0.9017	1.0016	0.9300	1.0700	0.9516	1.0517	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314418	6WALR285	230.0	345	356	0.9011	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314421	6WINCHST	230.0	345	356	0.9013	1.0012	0.9300	1.0700	0.9511	1.0513	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314423	6YORKTWN	230.0	345	356	0.9090	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314442	6NP NE 1	230.0	345	356	0.8864	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
314445	6WALR285	230.0	345	356	0.9029	1.0034	0.9300	1.0700	0.9533	1.0536	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
315092	1YORKTWN	25.0	345	356	0.9090	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2592	D: 6BENCHRCH-6CHCKTUK1 +6LIGH285-6WALR2851
313818	6BENCHRCH	230.0	345	360	0.8931	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2593	D: 6BENCHRCH-6CHCKTUK1 +6LIGH209-6WALR2091
314398	6NP NEWS	230.0	345	356	0.8951	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2593	D: 6BENCHRCH-6CHCKTUK1 +6LIGH209-6WALR2091
314399	6PEMBROK	230.0	345	356	0.8941	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2593	D: 6BENCHRCH-6CHCKTUK1 +6LIGH209-6WALR2091
314402	6PENINSL	230.0	345	356	0.8976	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2593	D: 6BENCHRCH-6CHCKTUK1 +6LIGH209-6WALR2091
314407	6SHELBNK	230.0	345	356	0.8932	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2593	D: 6BENCHRCH-6CHCKTUK1 +6LIGH209-6WALR2091
314409	6TABB	230.0	345	356	0.9041	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2593	D: 6BENCHRCH-6CHCKTUK1 +6LIGH209-6WALR2091
314442	6NP NE 1	230.0	345	356	0.8969	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2593	D: 6BENCHRCH-6CHCKTUK1 +6LIGH209-6WALR2091
314384	3KINGS M	115.0	345	356	0.9091	0.9665	0.9300	1.0700	0.9181	1.0148	LD	2599	D: 6BENCHRCH-6CHCKTUK1 +3NNNS58-3TOANO581
314411	3TOANO58	115.0	345	356	0.8998	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2599	D: 6BENCHRCH-6CHCKTUK1 +3NNNS58-3TOANO581
313818	6BENCHRCH	230.0	345	360	0.8943	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2601	D: 6BENCHRCH-6CHCKTUK1 +6NP NEWS-6NP NE 11
314398	6NP NEWS	230.0	345	356	0.8962	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2601	D: 6BENCHRCH-6CHCKTUK1 +6NP NEWS-6NP NE 11
314399	6PEMBROK	230.0	345	356	0.8984	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2601	D: 6BENCHRCH-6CHCKTUK1 +6NP NEWS-6NP NE 11
314407	6SHELBNK	230.0	345	356	0.9028	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2601	D: 6BENCHRCH-6CHCKTUK1 +6NP NEWS-6NP NE 11
313818	6BENCHRCH	230.0	345	360	0.8675	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2608	D: 6BENCHRCH-6CHCKTUK1 +6PENINSL-6SHELBNK1
314398	6NP NEWS	230.0	345	356	0.8696	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2608	D: 6BENCHRCH-6CHCKTUK1 +6PENINSL-6SHELBNK1
314399	6PEMBROK	230.0	345	356	0.8687	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2608	D: 6BENCHRCH-6CHCKTUK1 +6PENINSL-6SHELBNK1
314407	6SHELBNK	230.0	345	356	0.8681	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2608	D: 6BENCHRCH-6CHCKTUK1 +6PENINSL-6SHELBNK1
314442	6NP NE 1	230.0	345	356	0.8713	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2608	D: 6BENCHRCH-6CHCKTUK1 +6PENINSL-6SHELBNK1
313818	6BENCHRCH	230.0	345	360	0.8397	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2609	D: 6BENCHRCH-6CHCKTUK1 +6PENINSL-6TABB 1
314398	6NP NEWS	230.0	345	356	0.8418	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2609	D: 6BENCHRCH-6CHCKTUK1 +6PENINSL-6TABB 1
314399	6PEMBROK	230.0	345	356	0.8411	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2609	D: 6BENCHRCH-6CHCKTUK1 +6PENINSL-6TABB 1
314402	6PENINSL	230.0	345	356	0.8411	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2609	D: 6BENCHRCH-6CHCKTUK1 +6PENINSL-6TABB 1
314407	6SHELBNK	230.0	345	356	0.8407	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2609	D: 6BENCHRCH-6CHCKTUK1 +6PENINSL-6TABB 1
314442	6NP NE 1	230.0	345	356	0.8435	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2609	D: 6BENCHRCH-6CHCKTUK1 +6PENINSL-6TABB 1
313818	6BENCHRCH	230.0	345	360	0.7886	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2614	D: 6BENCHRCH-6CHCKTUK1 +6TABB -6YORKTWN1
314371	3RAMOCO Y	115.0	345	356	0.9024	0.9851	0.9300	1.0700	0.9358	1.0343	LD	2614	D: 6BENCHRCH-6CHCKTUK1 +6TABB -6YORKTWN1
314372	3BLOXOMC	115.0	345	356	0.8684	0.9896	0.9300	1.0700	0.9401	1.0391	LD	2614	D: 6BENCHRCH-6CHCKTUK1 +6TABB -6YORKTWN1
314373	3COLONY	115.0	345	356	0.9001	0.9842	0.9300	1.0700	0.9350	1.0334	LD	2614	D: 6BENCHRCH-6CHCKTUK1 +6TABB -6YORKTWN1
314379	3FTBUS58	115.0	345	356	0.9068	0.9704	0.9300	1.0700	0.9219	1.0189	LD	2614	D: 6BENCHRCH-6CHCKTUK1 +6TABB -6YORKTWN1
314382	3GRAFT58	115.0	345	356	0.9048	0.9767	0.9300	1.0700	0.9278	1.0255	LD	2614	D: 6BENCHRCH-6CHCKTUK1 +6TABB -6YORKTWN1
314389	3LEBAN58	115.0	345	356	0.9076	0.9681	0.9300	1.0700	0.9197	1.0165	LD	2614	D: 6BENCHRCH-6CHCKTUK1 +6TABB -6YORKTWN1
314392	3MAGUOR	115.0	345	356	0.8780	0.9962	0.9300	1.0700	0.9464	1.0460	LD	2614	D: 6BENCHRCH-6CHCKTUK1 +6TABB -6YORKTWN1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314393	3MERCURY	115.0	345	356	0.8754	0.9958	0.9300	1.0700	0.9460	1.0456	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314394	3NADA	115.0	345	356	0.8776	0.9974	0.9300	1.0700	0.9445	1.0439	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314398	6NP NEWS	230.0	345	356	0.7910	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314399	6FENBROK	230.0	345	356	0.7906	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314401	6FENINSL	115.0	345	356	0.8778	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314402	6FENINSL	230.0	345	356	0.7925	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314403	6SEAFD76	115.0	345	356	0.8951	0.9868	0.9300	1.0700	0.9375	1.0361	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314404	6SEAFD79	115.0	345	356	0.8947	0.9863	0.9300	1.0700	0.9370	1.0357	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314406	6SHLEBKK	115.0	345	356	0.8814	1.0010	0.9300	1.0700	0.9509	1.0510	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314407	6SHLEBKK	230.0	345	356	0.7906	1.0021	0.9300	1.0700	0.9493	1.0492	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314409	6TABB	230.0	345	356	0.7906	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314412	30 CARBD	115.0	345	356	0.8782	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314414	3MADWICK	115.0	345	356	0.9053	0.9892	0.9300	1.0700	0.9397	1.0386	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314416	6MADWICK	230.0	345	356	0.9078	1.0016	0.9300	1.0700	0.9516	1.0517	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314418	6WHEALTN	230.0	345	356	0.8997	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314420	6FENIN 1	115.0	345	356	0.8780	0.9947	0.9300	1.0700	0.9449	1.0444	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314421	6WINCHST	230.0	345	356	0.9000	1.0012	0.9300	1.0700	0.9511	1.0513	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314422	6YORKTWN	115.0	345	356	0.9025	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314424	6YMS 58	115.0	345	356	0.9088	0.9675	0.9300	1.0700	0.9191	1.0159	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314425	6YORK PS	115.0	345	356	0.9027	0.9853	0.9300	1.0700	0.9361	1.0346	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314442	6NP NE 1	230.0	345	356	0.7926	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
314445	6WHEAL 1	230.0	345	356	0.9015	1.0034	0.9300	1.0700	0.9533	1.0536	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
315091	1YORKTWN2	18.0	345	356	0.9025	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2614 D: 6BENCHRC-6CHCKTUK1 +6TABB	-6YORKTWN1
313812	6BROCKLAND	230.0	345	356	0.8758	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
313818	6BENCHCH	230.0	345	360	0.8537	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314180	6HAYES	230.0	345	354	0.8864	1.0085	0.9300	1.0700	0.9581	1.0589	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314296	6FENNIMAN	230.0	345	356	0.8937	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314371	3MADCO Y	115.0	345	356	0.8972	0.9851	0.9300	1.0700	0.9358	1.0343	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314372	3BLOXOMC	115.0	345	356	0.9076	0.9896	0.9300	1.0700	0.9401	1.0391	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314373	3COLONY	115.0	345	356	0.9027	0.9842	0.9300	1.0700	0.9350	1.0334	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314376	6DENBIGH	230.0	345	356	0.8850	1.0025	0.9300	1.0700	0.9524	1.0526	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314379	3FETUS58	115.0	345	356	0.8974	0.9704	0.9300	1.0700	0.9219	1.0189	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314381	3GRAFT34	115.0	345	356	0.9053	0.9829	0.9300	1.0700	0.9338	1.0321	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314382	3GRAFT58	115.0	345	356	0.8969	0.9767	0.9300	1.0700	0.9278	1.0255	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314384	3KINGS M	115.0	345	356	0.9029	0.9665	0.9300	1.0700	0.9181	1.0148	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314386	6KINGS M	230.0	345	356	0.8918	1.0017	0.9300	1.0700	0.9516	1.0518	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314389	3LEBAN58	115.0	345	356	0.8976	0.9681	0.9300	1.0700	0.9197	1.0165	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314390	6LICH285	230.0	345	356	0.9008	0.9968	0.9300	1.0700	0.9469	1.0466	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314391	6LICH209	230.0	345	356	0.9049	0.9991	0.9300	1.0700	0.9491	1.0490	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314398	6NP NEWS	230.0	345	356	0.8558	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314399	6FENBROK	230.0	345	356	0.8550	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314402	6FENINSL	230.0	345	356	0.8619	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314403	6SEAFD76	115.0	345	356	0.9010	0.9868	0.9300	1.0700	0.9375	1.0361	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314404	6SEAFD79	115.0	345	356	0.9004	0.9863	0.9300	1.0700	0.9370	1.0357	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314407	6SHLEBKK	230.0	345	356	0.8545	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314409	6TABB	230.0	345	356	0.8685	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	
314413	6WALR285	230.0	345	356	0.8948	0.9966	0.9300	1.0700	0.9467	1.0464	LD	2620 D: 6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1	

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314415	6WAIR209	230.0	345	356	0.8980	0.9989	0.9300	1.0700	0.9490	1.0489	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314416	6WARWICK	230.0	345	356	0.8753	1.0016	0.9300	1.0700	0.9516	1.0517	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314418	6WHEALT1	230.0	345	356	0.8742	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314422	3YORKTWN	115.0	345	356	0.8973	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314423	6YORKTWN	230.0	345	356	0.8846	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314424	3YNWS 58	115.0	345	356	0.8985	0.9675	0.9300	1.0700	0.9191	1.0159	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314425	3YORK ES	115.0	345	356	0.8966	0.9853	0.9300	1.0700	0.9361	1.0346	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314426	6NP NE 1	230.0	345	356	0.8575	1.0094	0.9300	1.0700	0.9589	1.0589	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314445	6WHEAL 1	230.0	345	356	0.8760	1.0034	0.9300	1.0700	0.9533	1.0536	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
314450	6YORKT 1	230.0	345	356	0.8875	1.0105	0.9300	1.0700	0.9599	1.0610	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
315091	1YORKTWN2	18.0	345	356	0.8973	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
315092	1YORKTWN3	25.0	345	356	0.8846	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2620	D:6BENCHRC-6CHCKTUK1 +6WHEALTN-6WINCHST1
313810	6DAHLGREN	230.0	345	354	0.9013	0.9894	0.9300	1.0700	0.9400	1.0389	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
313811	6ELKO 1284	230.0	345	355	0.8730	1.0062	0.9300	1.0700	0.9559	1.0565	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
313812	6ROCKLAND	230.0	345	356	0.8893	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
313813	3OCCRAN	115.0	345	354	0.8200	0.9862	0.9300	1.0700	0.9369	1.0355	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
313818	6BENCHRCH	230.0	345	360	0.4525	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
313828	3WHITMARR	115.0	345	354	0.5801	0.9983	0.9300	1.0700	0.9484	1.0482	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314139	6OAKGROV	230.0	345	354	0.8637	0.9678	0.9300	1.0700	0.9384	1.0372	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314172	6DUNNSVL	230.0	345	354	0.7997	0.9881	0.9300	1.0700	0.9387	1.0376	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314173	3GARNER	115.0	345	354	0.8307	0.9890	0.9300	1.0700	0.9395	1.0384	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314174	3HARMONY	115.0	345	354	0.6585	0.9972	0.9300	1.0700	0.9473	1.0471	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314176	6HARMONY	230.0	345	354	0.6949	1.0040	0.9300	1.0700	0.9538	1.0542	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314177	3HAYES89	115.0	345	354	0.5565	0.9984	0.9300	1.0700	0.9484	1.0483	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314178	3BLANCAST	115.0	345	354	0.8209	0.9870	0.9300	1.0700	0.9376	1.0363	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314180	6HAYES	230.0	345	354	0.5217	1.0085	0.9300	1.0700	0.9581	1.0589	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314181	3NORNECK	115.0	345	354	0.8567	1.0035	0.9300	1.0700	0.9533	1.0537	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314182	6NORNECK	230.0	345	354	0.8161	0.9844	0.9300	1.0700	0.9352	1.0337	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314183	6SANDERS	230.0	345	354	0.8251	0.9848	0.9300	1.0700	0.9356	1.0341	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314184	3SHACKLE	115.0	345	354	0.6783	0.9935	0.9300	1.0700	0.9438	1.0431	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314187	3WAN 176	115.0	345	354	0.6301	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314188	3WEST PT	115.0	345	354	0.6889	0.9916	0.9300	1.0700	0.9420	1.0412	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314189	6PAPERMILL	230.0	345	354	0.7261	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314190	6WESTMOR	230.0	345	354	0.8407	0.9863	0.9300	1.0700	0.9370	1.0356	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314191	3WHITE S	115.0	345	354	0.6538	0.9942	0.9300	1.0700	0.9444	1.0439	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314214	6CHCKKAH	230.0	345	355	0.8480	1.0084	0.9300	1.0700	0.9580	1.0589	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314241	6LODCHRC	230.0	345	355	0.8917	1.0023	0.9300	1.0700	0.9522	1.0524	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314243	3PROV 92	115.0	345	355	0.7738	0.9923	0.9300	1.0700	0.9427	1.0419	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314252	3TURN92	115.0	345	355	0.8921	0.9918	0.9300	1.0700	0.9422	1.0413	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314253	6TURNER	230.0	345	355	0.8955	1.0051	0.9300	1.0700	0.9548	1.0553	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314257	6WHITOK	230.0	345	355	0.8703	1.0063	0.9300	1.0700	0.9560	1.0567	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314258	6ELKO	230.0	345	355	0.8677	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314271	3GALLIED	230.0	345	357	0.8907	1.0066	0.9300	1.0700	0.9563	1.0569	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314272	6GALTINE	230.0	345	357	0.8885	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314281	6BURDET	230.0	345	357	0.8936	1.0067	0.9300	1.0700	0.9563	1.0570	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314294	6ENON	230.0	345	357	0.8983	1.0069	0.9300	1.0700	0.9566	1.0572	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314296	6PENNMAN	230.0	345	356	0.5929	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2622	D:6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314308	61CI	230.0	345	357	0.8955	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314371	3AMOCO Y	115.0	345	356	0.4979	0.9651	0.9300	1.0700	0.9358	1.0343	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314372	3BLOXOMC	115.0	345	356	0.4622	0.9696	0.9300	1.0700	0.9401	1.0391	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314373	3COLONY	115.0	345	356	0.4751	0.9842	0.9300	1.0700	0.9401	1.0391	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314374	3COPELND	115.0	345	356	0.4830	0.9963	0.9300	1.0700	0.9465	1.0461	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314375	3CORACTN	230.0	345	354	0.7369	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314376	6BENBIGH	230.0	345	356	0.5406	1.0025	0.9300	1.0700	0.9524	1.0526	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314377	3COON 34	115.0	345	356	0.7580	0.9865	0.9300	1.0700	0.9371	1.0358	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314378	3FTUSUS34	115.0	345	356	0.5628	0.9840	0.9300	1.0700	0.9348	1.0332	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314379	3FTUSUS8	115.0	345	356	0.5176	0.9704	0.9300	1.0700	0.9219	1.0189	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314381	3GRAFT34	115.0	345	356	0.5208	0.9829	0.9300	1.0700	0.9338	1.0321	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314382	3GRAFT58	115.0	345	356	0.5083	0.9767	0.9300	1.0700	0.9278	1.0255	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314384	3KINGS M	115.0	345	356	0.5376	0.9665	0.9300	1.0700	0.9181	1.0148	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314385	3SHAMO 1	115.0	345	354	0.6589	0.9979	0.9300	1.0700	0.9480	1.0478	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314386	6KINGS M	230.0	345	356	0.5799	1.0017	0.9300	1.0700	0.9516	1.0518	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314387	3LANEXA	115.0	345	356	0.7170	0.9930	0.9300	1.0700	0.9434	1.0427	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314388	3LANEXA	230.0	345	356	0.7506	1.0032	0.9300	1.0700	0.9530	1.0533	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314389	3LEBAN58	115.0	345	356	0.5213	0.9681	0.9300	1.0700	0.9197	1.0165	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314390	6LIGH285	230.0	345	356	0.6322	0.9968	0.9300	1.0700	0.9469	1.0466	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314391	6LIGH209	230.0	345	356	0.6495	0.9991	0.9300	1.0700	0.9491	1.0490	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314392	3MACGRUDR	115.0	345	356	0.4809	0.9962	0.9300	1.0700	0.9464	1.0460	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314393	3MECURY	115.0	345	356	0.4725	0.9958	0.9300	1.0700	0.9460	1.0456	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314394	3NASHA	115.0	345	356	0.4843	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314395	3SHAMO 2	115.0	345	354	0.6588	0.9977	0.9300	1.0700	0.9478	1.0476	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314396	3NEWS58	115.0	345	356	0.6519	0.9816	0.9300	1.0700	0.9325	1.0307	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314397	3NEWS75	115.0	345	356	0.4830	0.9963	0.9300	1.0700	0.9465	1.0461	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314398	6NP NEWS	230.0	345	356	0.4558	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314399	6PEMBROK	230.0	345	356	0.4575	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314400	3LANCA 1	115.0	345	354	0.8213	0.9875	0.9300	1.0700	0.9381	1.0368	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314401	3PENINSL	115.0	345	356	0.4843	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314402	6PENINSL	230.0	345	356	0.4747	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314403	3SEAFD76	115.0	345	356	0.4921	0.9668	0.9300	1.0700	0.9375	1.0361	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314404	3SEAFD79	115.0	345	356	0.4934	0.9663	0.9300	1.0700	0.9370	1.0357	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314406	6SHELBNK	115.0	345	356	0.4814	1.0010	0.9300	1.0700	0.9509	1.0510	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314407	6SHELBNK	230.0	345	356	0.4597	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314408	6CHCKA 1	230.0	345	355	0.8505	1.0115	0.9300	1.0700	0.9609	1.0621	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314409	6TABB	230.0	345	356	0.4874	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314411	3TOANOS8	115.0	345	356	0.6434	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314412	3U CARD	115.0	345	356	0.4843	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314413	6WALR285	230.0	345	356	0.6077	0.9966	0.9300	1.0700	0.9467	1.0464	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314414	3WAWICK	115.0	345	356	0.4774	0.9892	0.9300	1.0700	0.9397	1.0386	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314415	6WALR209	230.0	345	356	0.6196	0.9989	0.9300	1.0700	0.9490	1.0489	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314416	6WAWICK	230.0	345	356	0.4868	1.0016	0.9300	1.0700	0.9516	1.0517	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314417	3WHEALTN	115.0	345	356	0.4846	0.9972	0.9300	1.0700	0.9474	1.0471	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314418	6WHEALTN	230.0	345	356	0.4794	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314420	3PENIN 1	115.0	345	356	0.4845	0.9947	0.9300	1.0700	0.9449	1.0444	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314421	6WINCHST	230.0	345	356	0.4792	1.0012	0.9300	1.0700	0.9511	1.0513	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRaise	Viol	Ncon	Contingency Description
314422	3YORKTWN	115.0	345	356	0.4980	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314423	6YORKTWN	230.0	345	356	0.5185	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314424	3YNRS 58	115.0	345	356	0.5244	0.9675	0.9300	1.0700	0.9191	1.0159	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314425	3YORK PS	115.0	345	356	0.4982	0.9853	0.9300	1.0700	0.9361	1.0346	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314440	6LANEX 1	230.0	345	356	0.7521	1.0052	0.9300	1.0700	0.9550	1.0555	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314442	6NP NE 1	230.0	345	356	0.4557	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314445	6WHEAL 1	230.0	345	356	0.4804	1.0034	0.9300	1.0700	0.9533	1.0536	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
314450	6YORKT 1	230.0	345	356	0.5202	1.0105	0.9300	1.0700	0.9599	1.0610	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
315091	1YORKTWN2	18.0	345	356	0.4980	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
315092	1YORKTWN3	25.0	345	356	0.5185	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2622	D: 6BENCHRC-6CHCKTUK1 +6WINCHST-6POOLSVL1
313818	6BENCHRC	230.0	345	360	0.9011	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2625	D: 6BENCHRC-6CHCKTUK1 +6YORKTWN-6YORKT 11
314398	6NP NEWS	230.0	345	356	0.9030	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2625	D: 6BENCHRC-6CHCKTUK1 +6YORKTWN-6YORKT 11
314399	6EMBROK	230.0	345	356	0.9020	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2625	D: 6BENCHRC-6CHCKTUK1 +6YORKTWN-6YORKT 11
314402	6PEMINSK	230.0	345	356	0.9058	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2625	D: 6BENCHRC-6CHCKTUK1 +6YORKTWN-6YORKT 11
314407	6SHLEBK	230.0	345	356	0.9011	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2625	D: 6BENCHRC-6CHCKTUK1 +6YORKTWN-6YORKT 11
314442	6NP NE 1	230.0	345	356	0.9049	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2625	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
313810	6DAHLGREN	230.0	345	354	0.8979	0.9894	0.9300	1.0700	0.9400	1.0389	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
313811	6ELKO L288	230.0	345	355	0.8655	1.0062	0.9300	1.0700	0.9559	1.0555	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
313812	6ROCKLAND	230.0	345	356	0.4778	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
313813	3OCRAH	115.0	345	354	0.8136	0.9862	0.9300	1.0700	0.9369	1.0355	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
313828	3WHITENARS	115.0	345	360	0.4409	1.0198	0.9300	1.0700	0.9688	1.0708	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314139	6OARGROV	230.0	345	354	0.8586	0.9983	0.9300	1.0700	0.9484	1.0482	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314172	6DUNNSVL	230.0	345	354	0.7945	0.9681	0.9300	1.0700	0.9387	1.0376	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314173	3GARNER	115.0	345	354	0.8246	0.9890	0.9300	1.0700	0.9395	1.0384	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314176	6HARMONY	230.0	345	354	0.6492	0.9972	0.9300	1.0700	0.9473	1.0471	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314177	3HAYES99	115.0	345	354	0.8374	1.0040	0.9300	1.0700	0.9538	1.0542	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314178	3LANCAST	115.0	345	354	0.5453	0.9984	0.9300	1.0700	0.9484	1.0483	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314180	6HAYES	230.0	345	354	0.5104	1.0085	0.9300	1.0700	0.9581	1.0589	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314181	3NORNECK	115.0	345	354	0.8511	1.0035	0.9300	1.0700	0.9533	1.0537	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314182	6NORNECK	230.0	345	354	0.8112	0.9644	0.9300	1.0700	0.9352	1.0337	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314183	6SANDERS	230.0	345	354	0.8203	0.9848	0.9300	1.0700	0.9356	1.0341	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314184	3SHACKLE	115.0	345	354	0.6625	0.9935	0.9300	1.0700	0.9438	1.0431	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314187	3WAN 176	115.0	345	354	0.6205	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314188	3WEST PT	115.0	345	354	0.6803	0.9916	0.9300	1.0700	0.9420	1.0412	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314189	6PAPERMILL	230.0	345	354	0.7194	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314190	6WESTMOR	230.0	345	354	0.8302	0.9863	0.9300	1.0700	0.9370	1.0356	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314191	3WHITE S	115.0	345	354	0.6445	0.9942	0.9300	1.0700	0.9444	1.0439	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314214	6CHCKAHM	230.0	345	355	0.8439	1.0084	0.9300	1.0700	0.9580	1.0589	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314241	6OLDCHRC	230.0	345	355	0.8857	1.0023	0.9300	1.0700	0.9522	1.0524	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314243	3PROV 92	115.0	345	355	0.7672	0.9923	0.9300	1.0700	0.9427	1.0419	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314252	3TURNR92	115.0	345	355	0.8880	0.9918	0.9300	1.0700	0.9422	1.0413	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314253	6TURNER	230.0	345	355	0.8924	1.0051	0.9300	1.0700	0.9548	1.0553	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314257	6WHITOKK	230.0	345	355	0.8658	1.0063	0.9300	1.0700	0.9560	1.0567	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314258	6ELKO	230.0	345	355	0.8641	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1
314271	6ALLIED	230.0	345	357	0.8874	1.0066	0.9300	1.0700	0.9563	1.0569	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURREY -6POOLSVL1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Neon	Contingency Description
314272	GALEFINE	230.0	345	357	0.8821	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314281	BEURDET	230.0	345	357	0.8902	1.0067	0.9300	1.0700	0.9563	1.0570	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314294	GENON	230.0	345	357	0.8933	1.0069	0.9300	1.0700	0.9566	1.0572	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314296	6PENNINGAN	230.0	345	356	0.5833	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314308	6TICI	230.0	345	357	0.8921	1.0066	0.9300	1.0700	0.9562	1.0569	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314371	3AMOCO Y	115.0	345	356	0.4861	0.9851	0.9300	1.0700	0.9358	1.0343	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314372	3BLOXOMC	115.0	345	356	0.4501	0.9896	0.9300	1.0700	0.9401	1.0391	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314373	3COLONY	115.0	345	356	0.4631	0.9842	0.9300	1.0700	0.9350	1.0334	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314374	3COPELAND	115.0	345	356	0.4710	0.9863	0.9300	1.0700	0.9465	1.0461	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314375	6CORRECTN	230.0	345	354	0.7305	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314376	6DENBIGH	230.0	345	356	0.5298	1.0025	0.9300	1.0700	0.9524	1.0526	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314377	3DOW 34	115.0	345	356	0.5674	0.9865	0.9300	1.0700	0.9371	1.0358	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314378	3FTEUS34	115.0	345	356	0.5418	0.9840	0.9300	1.0700	0.9348	1.0332	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314379	3FTUUS8	115.0	345	356	0.5094	0.9704	0.9300	1.0700	0.9219	1.0189	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314381	3GRAFT34	115.0	345	356	0.5093	0.9829	0.9300	1.0700	0.9338	1.0321	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314382	3GRAFT58	115.0	345	356	0.4968	0.9767	0.9300	1.0700	0.9278	1.0255	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314384	3KINGS M	115.0	345	356	0.5268	0.9665	0.9300	1.0700	0.9181	1.0148	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314385	3HARMO 1	115.0	345	354	0.6496	0.9879	0.9300	1.0700	0.9480	1.0478	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314386	6KINGS M	230.0	345	356	0.5700	1.0017	0.9300	1.0700	0.9516	1.0518	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314387	3LANEXA	115.0	345	356	0.7021	0.9930	0.9300	1.0700	0.9434	1.0427	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314388	6LANEXA	230.0	345	356	0.7445	1.0032	0.9300	1.0700	0.9530	1.0533	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314389	3LEAVANS8	115.0	345	356	0.5101	0.9681	0.9300	1.0700	0.9197	1.0165	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314390	6LIGH285	230.0	345	356	0.6237	0.9968	0.9300	1.0700	0.9469	1.0466	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314391	6LIGH209	230.0	345	356	0.6413	0.9991	0.9300	1.0700	0.9491	1.0490	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314392	3MAGRUDR	115.0	345	356	0.4697	0.9962	0.9300	1.0700	0.9464	1.0460	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314393	3MERCURY	115.0	345	356	0.4603	0.9958	0.9300	1.0700	0.9460	1.0456	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314394	3MA3A	115.0	345	356	0.4723	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314395	3HARMO 2	115.0	345	354	0.6495	0.9977	0.9300	1.0700	0.9478	1.0476	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314396	3NEWS58	115.0	345	356	0.6430	0.9816	0.9300	1.0700	0.9325	1.0307	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314397	3NEWS75	115.0	345	356	0.4710	0.9963	0.9300	1.0700	0.9465	1.0461	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314398	6NP NEWS	230.0	345	356	0.4442	1.0074	0.9300	1.0700	0.9570	1.0577	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314399	6PEMBROK	230.0	345	356	0.4459	1.0035	0.9300	1.0700	0.9533	1.0536	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314400	3LANCA 1	115.0	345	354	0.8149	0.9875	0.9300	1.0700	0.9381	1.0368	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314401	3PENINSL	115.0	345	356	0.4723	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314402	6PENINSL	230.0	345	356	0.4632	1.0007	0.9300	1.0700	0.9507	1.0508	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314403	3SEAFD76	115.0	345	356	0.4912	0.9868	0.9300	1.0700	0.9375	1.0361	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314404	3SEAFD79	115.0	345	356	0.4896	0.9863	0.9300	1.0700	0.9370	1.0357	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314406	3SHELBK	115.0	345	356	0.4692	1.0010	0.9300	1.0700	0.9509	1.0510	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314407	6SHELBK	230.0	345	356	0.4481	0.9993	0.9300	1.0700	0.9493	1.0492	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314408	6CHCKA 1	230.0	345	355	0.8405	1.0115	0.9300	1.0700	0.9609	1.0621	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314409	6TABB	230.0	345	356	0.4759	1.0021	0.9300	1.0700	0.9520	1.0522	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314411	3TOANOS8	115.0	345	356	0.6343	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314412	3U CARDID	115.0	345	356	0.4722	0.9942	0.9300	1.0700	0.9445	1.0439	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314413	6WALR285	230.0	345	356	0.5985	0.9966	0.9300	1.0700	0.9467	1.0464	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314414	3MARWICK	115.0	345	356	0.4654	0.9892	0.9300	1.0700	0.9397	1.0386	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314415	6WALR209	230.0	345	356	0.6106	0.9989	0.9300	1.0700	0.9490	1.0489	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1
314416	6MARWICK	230.0	345	356	0.4754	1.0016	0.9300	1.0700	0.9516	1.0517	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURRY -6POOLSVL1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314417	3WHALTN	115.0	345	356	0.4756	0.9972	0.9300	1.0700	0.9474	1.0471	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314418	6WHEALTN	230.0	345	356	0.4752	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314420	3PENIN 1	115.0	345	356	0.4752	0.9947	0.9300	1.0700	0.9449	1.0444	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314421	6WINDHST	230.0	345	356	0.4680	1.0012	0.9300	1.0700	0.9511	1.0513	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314422	3YORKTWN	115.0	345	356	0.4853	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314423	6YORKTWN	230.0	345	356	0.5073	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314424	3YRMS 58	115.0	345	356	0.5133	0.9675	0.9300	1.0700	0.9191	1.0159	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314425	3YORK PS	115.0	345	356	0.4855	0.9853	0.9300	1.0700	0.9361	1.0346	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314440	6LANEX 1	230.0	345	356	0.4450	1.0052	0.9300	1.0700	0.9550	1.0555	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314442	6NP NE 1	230.0	345	356	0.4750	1.0094	0.9300	1.0700	0.9589	1.0599	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314445	6WHEAL 1	230.0	345	356	0.4652	1.0034	0.9300	1.0700	0.9533	1.0536	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314450	6YORKT 1	230.0	345	356	0.5089	1.0105	0.9300	1.0700	0.9599	1.0610	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
314540	6POOLSVL	230.0	345	360	0.4655	1.0054	0.9300	1.0700	0.9552	1.0557	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
315091	1YORKT2	18.0	345	356	0.4863	0.9852	0.9300	1.0700	0.9359	1.0344	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
315092	1YORKT3	25.0	345	356	0.5073	1.0072	0.9300	1.0700	0.9568	1.0575	LD	2767	D: 6BENCHRC-6CHCKTUK1 +6SURY -6POOLSVL1
313810	6DAHLGREN	230.0	345	354	0.8955	0.9894	0.9300	1.0700	0.9400	1.0389	LD	2837	D: 3WHITTEMA-3HARMONY1 +GARNOLDUS-6COMORN 1
314131	6ARNOLDUS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	2837	D: 3WHITTEMA-3HARMONY1 +GARNOLDUS-6COMORN 1
314139	6OAKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	2837	D: 3WHITTEMA-3HARMONY1 +GARNOLDUS-6COMORN 1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	2837	D: 3WHITTEMA-3HARMONY1 +GARNOLDUS-6COMORN 1
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	2838	D: 3WHITTEMA-3HARMONY1 +6BIRCHWD-6COMORN 1
314131	6ARNOLDUS	230.0	345	354	0.8889	0.9954	0.9300	1.0700	0.9457	1.0452	LD	2838	D: 3WHITTEMA-3HARMONY1 +6BIRCHWD-6COMORN 1
314139	6OAKGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	2838	D: 3WHITTEMA-3HARMONY1 +6BIRCHWD-6COMORN 1
314175	6COMORN	230.0	345	354	0.8879	0.9963	0.9300	1.0700	0.9465	1.0461	LD	2838	D: 3WHITTEMA-3HARMONY1 +6BIRCHWD-6COMORN 1
314182	6NORNECK	230.0	345	354	0.9090	0.9844	0.9300	1.0700	0.9352	1.0337	LD	2838	D: 3WHITTEMA-3HARMONY1 +6BIRCHWD-6COMORN 1
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	2838	D: 3WHITTEMA-3HARMONY1 +6BIRCHWD-6COMORN 1
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	2838	D: 3WHITTEMA-3HARMONY1 +6BIRCHWD-6COMORN 1
314176	6HARMONY	230.0	345	354	0.8365	1.0040	0.9300	1.0700	0.9538	1.0542	LD	2861	D: 3WHITTEMA-3HARMONY1 +6PAPERMI-6CORRCTN1
314189	6PAPERMI	230.0	345	354	0.8310	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2861	D: 3WHITTEMA-3HARMONY1 +6PAPERMI-6CORRCTN1
314174	3HARMONY	115.0	345	354	0.8838	0.9972	0.9300	1.0700	0.9473	1.0471	LD	2883	D: 3WHITTEMA-3HARMONY1 +6CORRCTN-6LANEXA 1
314176	6HARMONY	230.0	345	354	0.8220	1.0040	0.9300	1.0700	0.9538	1.0542	LD	2883	D: 3WHITTEMA-3HARMONY1 +6CORRCTN-6LANEXA 1
314187	3WAN 176	115.0	345	354	0.8640	0.9801	0.9300	1.0700	0.9311	1.0291	LD	2883	D: 3WHITTEMA-3HARMONY1 +6CORRCTN-6LANEXA 1
314189	6PAPERMI	230.0	345	354	0.8150	1.0014	0.9300	1.0700	0.9513	1.0515	LD	2883	D: 3WHITTEMA-3HARMONY1 +6CORRCTN-6LANEXA 1
314191	3WHITE S	115.0	345	354	0.8803	0.9942	0.9300	1.0700	0.9444	1.0439	LD	2883	D: 3WHITTEMA-3HARMONY1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8146	1.0020	0.9300	1.0700	0.9519	1.0521	LD	2883	D: 3WHITTEMA-3HARMONY1 +6CORRCTN-6LANEXA 1
314385	3HARMO 1	115.0	345	354	0.8844	0.9979	0.9300	1.0700	0.9480	1.0478	LD	2883	D: 3WHITTEMA-3HARMONY1 +6CORRCTN-6LANEXA 1
314395	3HARMO 2	115.0	345	354	0.8842	0.9977	0.9300	1.0700	0.9478	1.0476	LD	2883	D: 3WHITTEMA-3HARMONY1 +6CORRCTN-6LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.8962	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3146	D: 3WHITTEMA-3HAYES891 +GARNOLDUS-6COMORN 1
314131	6ARNOLDUS	230.0	345	354	0.8957	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3146	D: 3WHITTEMA-3HAYES891 +GARNOLDUS-6COMORN 1
314139	6OAKGROV	230.0	345	354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3146	D: 3WHITTEMA-3HAYES891 +GARNOLDUS-6COMORN 1
314190	6WESTMOR	230.0	345	354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3146	D: 3WHITTEMA-3HAYES891 +GARNOLDUS-6COMORN 1
313810	6DAHLGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3147	D: 3WHITTEMA-3HAYES891 +6BIRCHWD-6COMORN 1
314131	6ARNOLDUS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3147	D: 3WHITTEMA-3HAYES891 +6BIRCHWD-6COMORN 1
314139	6OAKGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3147	D: 3WHITTEMA-3HAYES891 +6BIRCHWD-6COMORN 1
314175	6COMORN	230.0	345	354	0.8981	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3147	D: 3WHITTEMA-3HAYES891 +6BIRCHWD-6COMORN 1
314182	6NORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3147	D: 3WHITTEMA-3HAYES891 +6BIRCHWD-6COMORN 1
314183	6SANDERS	230.0	345	354	0.9065	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3147	D: 3WHITTEMA-3HAYES891 +6BIRCHWD-6COMORN 1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3147	D: 3WHITTEMA-3HAYES891 +6BIRCHWD-6COMORN 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Neon	Contingency Description
314176	GHARMONY	230.0	345	354	0.8325	1.0040	0.9300	1.0700	0.9538	1.0342	LD	3170	D:3WHITEMA-3HAYES891 +6PAPERMI-6CORRECTN1
314187	3WAN 176	115.0	345	354	0.9070	0.9601	0.9300	1.0700	0.9311	1.0291	LD	3170	D:3WHITEMA-3HAYES891 +6PAPERMI-6CORRECTN1
314189	6PAPERMI	230.0	345	354	0.8269	1.0014	0.9300	1.0700	0.9513	1.0315	LD	3170	D:3WHITEMA-3HAYES891 +6PAPERMI-6CORRECTN1
314828	3WHITEMA	115.0	345	354	0.8963	0.9972	0.9300	1.0700	0.9484	1.0482	LD	3192	D:3WHITEMA-3HAYES891 +6CORRECTN-6LANEXA 1
314174	3HARMONY	115.0	345	354	0.8896	0.9972	0.9300	1.0700	0.9473	1.0471	LD	3192	D:3WHITEMA-3HAYES891 +6CORRECTN-6LANEXA 1
314176	GHARMONY	230.0	345	354	0.8279	1.0040	0.9300	1.0700	0.9538	1.0342	LD	3192	D:3WHITEMA-3HAYES891 +6CORRECTN-6LANEXA 1
314187	3WAN 176	115.0	345	354	0.8700	0.9601	0.9300	1.0700	0.9311	1.0291	LD	3192	D:3WHITEMA-3HAYES891 +6CORRECTN-6LANEXA 1
314189	6PAPERMI	230.0	345	354	0.8209	1.0014	0.9300	1.0700	0.9513	1.0315	LD	3192	D:3WHITEMA-3HAYES891 +6CORRECTN-6LANEXA 1
314191	3WHITE S	115.0	345	354	0.8822	0.9942	0.9300	1.0700	0.9444	1.0439	LD	3192	D:3WHITEMA-3HAYES891 +6CORRECTN-6LANEXA 1
314375	6CORRECTN	230.0	345	354	0.8205	1.0020	0.9300	1.0700	0.9519	1.0521	LD	3192	D:3WHITEMA-3HAYES891 +6CORRECTN-6LANEXA 1
314385	3HARMO 1	115.0	345	354	0.8902	0.9979	0.9300	1.0700	0.9480	1.0478	LD	3192	D:3WHITEMA-3HAYES891 +6CORRECTN-6LANEXA 1
314395	3HARMO 2	115.0	345	354	0.8901	0.9977	0.9300	1.0700	0.9478	1.0476	LD	3192	D:3WHITEMA-3HAYES891 +6CORRECTN-6LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3455	D:6ARNOLDS-6COMORN 1 +6BIRCHWD-6COMORN 1
314131	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3455	D:6ARNOLDS-6COMORN 1 +6BIRCHWD-6COMORN 1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3455	D:6ARNOLDS-6COMORN 1 +6BIRCHWD-6COMORN 1
314190	6WESTMOR	230.0	345	354	0.8989	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3456	D:6ARNOLDS-6COMORN 1 +6BIRCHWD-1BRCHWD1
313810	6DAHLGREN	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3456	D:6ARNOLDS-6COMORN 1 +6BIRCHWD-1BRCHWD1
314131	6ARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3462	D:6ARNOLDS-6COMORN 1 +3HARMONY-3SHACKLE1
314139	6OAKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3462	D:6ARNOLDS-6COMORN 1 +3HARMONY-3SHACKLE1
314190	6WESTMOR	230.0	345	354	0.8988	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3462	D:6ARNOLDS-6COMORN 1 +3HARMONY-3SHACKLE1
313810	6DAHLGREN	230.0	345	354	0.9019	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3463	D:6ARNOLDS-6COMORN 1 +3HARMONY-3WAN 1761
314131	6ARNOLDS	230.0	345	354	0.9014	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3463	D:6ARNOLDS-6COMORN 1 +3HARMONY-3WAN 1761
314139	6OAKGROV	230.0	345	354	0.9098	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3463	D:6ARNOLDS-6COMORN 1 +3HARMONY-3WHITE S1
313810	6DAHLGREN	230.0	345	354	0.8975	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3464	D:6ARNOLDS-6COMORN 1 +3HARMONY-3WHITE S1
314131	6ARNOLDS	230.0	345	354	0.8970	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3464	D:6ARNOLDS-6COMORN 1 +3HARMONY-3WHITE S1
314139	6OAKGROV	230.0	345	354	0.9055	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3464	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 11
313810	6DAHLGREN	230.0	345	354	0.8906	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3465	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 11
314131	6ARNOLDS	230.0	345	354	0.8901	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3465	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 11
314139	6OAKGROV	230.0	345	354	0.8987	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3465	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 11
314182	6MORNECK	230.0	345	354	0.8992	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3465	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 11
314183	6SANDERS	230.0	345	354	0.9067	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3465	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 11
314190	6WESTMOR	230.0	345	354	0.9036	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3465	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 21
313810	6DAHLGREN	230.0	345	354	0.8921	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3466	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 21
314131	6ARNOLDS	230.0	345	354	0.8916	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3466	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 21
314139	6OAKGROV	230.0	345	354	0.9002	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3466	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 21
314183	6SANDERS	230.0	345	354	0.9082	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3466	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 21
314190	6WESTMOR	230.0	345	354	0.9051	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3466	D:6ARNOLDS-6COMORN 1 +3HARMONY-3HARMO 21
313810	6DAHLGREN	230.0	345	354	0.8941	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3467	D:6ARNOLDS-6COMORN 1 +3HARMONY-6HARMONY1
314131	6ARNOLDS	230.0	345	354	0.8936	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3467	D:6ARNOLDS-6COMORN 1 +3HARMONY-6HARMONY1
314139	6OAKGROV	230.0	345	354	0.9022	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3467	D:6ARNOLDS-6COMORN 1 +3HARMONY-6HARMONY1
314190	6WESTMOR	230.0	345	354	0.9071	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3467	D:6ARNOLDS-6COMORN 1 +3HARMONY-6HARMONY1
313810	6DAHLGREN	230.0	345	354	0.8911	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3468	D:6ARNOLDS-6COMORN 1 +6PAPERMI1
314131	6ARNOLDS	230.0	345	354	0.8966	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3468	D:6ARNOLDS-6COMORN 1 +6PAPERMI1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314139	GOARGOV	230.0		354	0.8992	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3468	D: GARNOLDS-ECOMORN 1 +6HARMONY-6PAPERMT1
314182	GNORNECK	230.0		354	0.9097	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3468	D: GARNOLDS-ECOMORN 1 +6HARMONY-6PAPERMT1
314183	GSANDERS	230.0		354	0.9072	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3468	D: GARNOLDS-ECOMORN 1 +6HARMONY-6PAPERMT1
314190	GWESTMOR	230.0		354	0.9042	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3468	D: GARNOLDS-ECOMORN 1 +6HARMONY-6PAPERMT1
313810	GDHILGREN	230.0		354	0.8931	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3469	D: GARNOLDS-ECOMORN 1 +3HAYES89-6HAYES 1
314131	GARNOLDS	230.0		354	0.8926	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3469	D: GARNOLDS-ECOMORN 1 +3HAYES89-6HAYES 1
314139	GOARGOV	230.0		354	0.9012	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3469	D: GARNOLDS-ECOMORN 1 +3HAYES89-6HAYES 1
314183	GSANDERS	230.0		354	0.9091	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3469	D: GARNOLDS-ECOMORN 1 +3HAYES89-6HAYES 1
314190	GWESTMOR	230.0		354	0.9061	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3469	D: GARNOLDS-ECOMORN 1 +3HAYES89-6HAYES 1
313810	GDHILGREN	230.0		354	0.9068	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3470	D: GARNOLDS-ECOMORN 1 +3LANCAST-3LANCA 11
313813	30CRAN	115.0		354	0.9068	0.9862	0.9300	1.0700	0.9369	1.0355	LD	3470	D: GARNOLDS-ECOMORN 1 +3LANCAST-3LANCA 11
314131	GARNOLDS	230.0		354	0.8675	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3470	D: GARNOLDS-ECOMORN 1 +3LANCAST-3LANCA 11
314139	GOARGOV	230.0		354	0.8764	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3470	D: GARNOLDS-ECOMORN 1 +3LANCAST-3LANCA 11
314172	GOUNSVL	230.0		354	0.9047	0.9881	0.9300	1.0700	0.9387	1.0376	LD	3470	D: GARNOLDS-ECOMORN 1 +3LANCAST-3LANCA 11
314178	31LANCAST	115.0		354	0.9076	0.9870	0.9300	1.0700	0.9376	1.0363	LD	3470	D: GARNOLDS-ECOMORN 1 +3LANCAST-3LANCA 11
314182	GNORNECK	230.0		354	0.8875	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3470	D: GARNOLDS-ECOMORN 1 +3LANCAST-3LANCA 11
314183	GSANDERS	230.0		354	0.8848	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3470	D: GARNOLDS-ECOMORN 1 +3LANCAST-3LANCA 11
314190	GWESTMOR	230.0		354	0.8846	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3470	D: GARNOLDS-ECOMORN 1 +3LANCAST-3LANCA 11
313810	GDHILGREN	230.0		354	0.8862	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3471	D: GARNOLDS-ECOMORN 1 +6HAYES -6YORKTWN1
314131	GARNOLDS	230.0		354	0.8857	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3471	D: GARNOLDS-ECOMORN 1 +6HAYES -6YORKTWN1
314139	GOARGOV	230.0		354	0.8944	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3471	D: GARNOLDS-ECOMORN 1 +6HAYES -6YORKTWN1
314180	GHAVES	230.0		354	0.9077	1.0085	0.9300	1.0700	0.9581	1.0589	LD	3471	D: GARNOLDS-ECOMORN 1 +6HAYES -6YORKTWN1
314182	GNORNECK	230.0		354	0.9050	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3471	D: GARNOLDS-ECOMORN 1 +6HAYES -6YORKTWN1
314183	GSANDERS	230.0		354	0.9024	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3471	D: GARNOLDS-ECOMORN 1 +6HAYES -6YORKTWN1
314190	GWESTMOR	230.0		354	0.8994	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3471	D: GARNOLDS-ECOMORN 1 +6HAYES -6YORKTWN1
313810	GDHILGREN	230.0		354	0.8980	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3472	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK1
314131	GARNOLDS	230.0		354	0.8875	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3472	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK1
314139	GOARGOV	230.0		354	0.8962	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3472	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK1
314182	GNORNECK	230.0		354	0.9067	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3472	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK1
314183	GSANDERS	230.0		354	0.9042	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3472	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK1
314190	GWESTMOR	230.0		354	0.9011	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3472	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK1
313810	GDHILGREN	230.0		354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3473	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK2
314131	GARNOLDS	230.0		354	0.8888	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3473	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK2
314139	GOARGOV	230.0		354	0.8975	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3473	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK2
314182	GNORNECK	230.0		354	0.9080	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3473	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK2
314183	GSANDERS	230.0		354	0.9054	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3473	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK2
314190	GWESTMOR	230.0		354	0.8954	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3473	D: GARNOLDS-ECOMORN 1 +3NORNECK-6NORNECK2
313810	GDHILGREN	230.0		354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3476	D: GARNOLDS-ECOMORN 1 +3SHACKLE-3WEST PT1
314131	GARNOLDS	230.0		354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3476	D: GARNOLDS-ECOMORN 1 +3SHACKLE-3WEST PT1
314139	GOARGOV	230.0		354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3476	D: GARNOLDS-ECOMORN 1 +3SHACKLE-3WEST PT1
314182	GNORNECK	230.0		354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3476	D: GARNOLDS-ECOMORN 1 +3SHACKLE-3WEST PT1
314183	GSANDERS	230.0		354	0.8945	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3477	D: GARNOLDS-ECOMORN 1 +3WEST PT-3LANEXA 1
314190	GWESTMOR	230.0		354	0.8945	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3477	D: GARNOLDS-ECOMORN 1 +3WEST PT-3LANEXA 1
314131	GARNOLDS	230.0		354	0.9030	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3477	D: GARNOLDS-ECOMORN 1 +3WEST PT-3LANEXA 1
314139	GOARGOV	230.0		354	0.9079	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3477	D: GARNOLDS-ECOMORN 1 +3WEST PT-3LANEXA 1
314182	GNORNECK	230.0		354	0.8910	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3478	D: GARNOLDS-ECOMORN 1 +6PAPERMT-6CORRECTN1
314183	GSANDERS	230.0		354	0.8905	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3478	D: GARNOLDS-ECOMORN 1 +6PAPERMT-6CORRECTN1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314139	GOARGROV	230.0	345	354	0.8992	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3476	D: GARNOLDS-ECOMORN 1 +6PAPERMI-6CORRECTNL
314182	GNORNECK	230.0	345	354	0.9096	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3476	D: GARNOLDS-ECOMORN 1 +6PAPERMI-6CORRECTNL
314183	GSANDERS	230.0	345	354	0.9070	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3476	D: GARNOLDS-ECOMORN 1 +6PAPERMI-6CORRECTNL
314190	GWESTMOR	230.0	345	354	0.9040	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3476	D: GARNOLDS-ECOMORN 1 +6PAPERMI-6CORRECTNL
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3479	D: GARNOLDS-ECOMORN 1 +30AKRIDG-30AKRI 11
314131	GARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3479	D: GARNOLDS-ECOMORN 1 +30AKRIDG-30AKRI 11
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3479	D: GARNOLDS-ECOMORN 1 +30AKRIDG-30AKRI 11
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3479	D: GARNOLDS-ECOMORN 1 +30AKRIDG-30AKRI 11
313810	GDAILGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3479	D: GARNOLDS-ECOMORN 1 +30AKRIDG-30AKRI 11
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3480	D: GARNOLDS-ECOMORN 1 +30AKRIDG-3KINGS F1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3480	D: GARNOLDS-ECOMORN 1 +30AKRIDG-3KINGS F1
314190	GWESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3480	D: GARNOLDS-ECOMORN 1 +30AKRIDG-3KINGS F1
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3481	D: GARNOLDS-ECOMORN 1 +30AKRIDG-30AKRI2321
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3481	D: GARNOLDS-ECOMORN 1 +30AKRIDG-30AKRI2321
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3481	D: GARNOLDS-ECOMORN 1 +30AKRIDG-30AKRI2321
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3481	D: GARNOLDS-ECOMORN 1 +30AKRIDG-30AKRI2321
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3482	D: GARNOLDS-ECOMORN 1 +1GOSPORT-3GOSPORT1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3482	D: GARNOLDS-ECOMORN 1 +1GOSPORT-3GOSPORT1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3482	D: GARNOLDS-ECOMORN 1 +1GOSPORT-3GOSPORT1
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3482	D: GARNOLDS-ECOMORN 1 +1GOSPORT-3GOSPORT1
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3483	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTAL
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3483	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTAL
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3483	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTAL
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3483	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTAL
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3484	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTB1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3484	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTB1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3484	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTB1
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3484	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTB1
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3485	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTC1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3485	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTC1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3485	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTC1
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3485	D: GARNOLDS-ECOMORN 1 +1GOSPORT-1GOSPTC1
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3486	D: GARNOLDS-ECOMORN 1 +6BTRDNEC-6LANDSTN1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3486	D: GARNOLDS-ECOMORN 1 +6BTRDNEC-6LANDSTN1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3486	D: GARNOLDS-ECOMORN 1 +6BTRDNEC-6LANDSTN1
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3486	D: GARNOLDS-ECOMORN 1 +6BTRDNEC-6LANDSTN1
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3487	D: GARNOLDS-ECOMORN 1 +6BTRDNEC-6VA BCH 1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3487	D: GARNOLDS-ECOMORN 1 +6BTRDNEC-6VA BCH 1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3487	D: GARNOLDS-ECOMORN 1 +6BTRDNEC-6VA BCH 1
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3487	D: GARNOLDS-ECOMORN 1 +6BTRDNEC-6VA BCH 1
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3488	D: GARNOLDS-ECOMORN 1 +6PENNIMA-6KINGS M1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3488	D: GARNOLDS-ECOMORN 1 +6PENNIMA-6KINGS M1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3488	D: GARNOLDS-ECOMORN 1 +6PENNIMA-6KINGS M1
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3488	D: GARNOLDS-ECOMORN 1 +6PENNIMA-6KINGS M1
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3489	D: GARNOLDS-ECOMORN 1 +6PENNIMA-6WALR2091

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314131	GARNOLDS	230.0	345	354	0.8905	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3489	D: GARNOLDS-6COMORN 1 +6PENNTMA-6WALR2091
314139	GOARGROV	230.0	345	354	0.8921	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3489	D: GARNOLDS-6COMORN 1 +6PENNTMA-6WALR2091
314182	6NORNECK	230.0	345	354	0.9096	0.9844	0.9300	1.0700	0.9356	1.0337	LD	3489	D: GARNOLDS-6COMORN 1 +6PENNTMA-6WALR2091
314183	6SANDERS	230.0	345	354	0.9070	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3489	D: GARNOLDS-6COMORN 1 +6PENNTMA-6WALR2091
314190	6WESTMOR	230.0	345	354	0.9040	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3489	D: GARNOLDS-6COMORN 1 +6PENNTMA-6WALR2091
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3490	D: GARNOLDS-6COMORN 1 +3S27T67A-3BURTN671
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3490	D: GARNOLDS-6COMORN 1 +3S27T67A-3BURTN671
314139	GOARGROV	230.0	345	354	0.8941	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3491	D: GARNOLDS-6COMORN 1 +3S27T67B-3AMPHB671
314190	6WESTMOR	230.0	345	354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3491	D: GARNOLDS-6COMORN 1 +3S27T67B-3AMPHB671
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3492	D: GARNOLDS-6COMORN 1 +3S27T67B-3BURTN671
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3492	D: GARNOLDS-6COMORN 1 +3S27T67B-3BURTN671
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3492	D: GARNOLDS-6COMORN 1 +3S27T67B-3BURTN671
314190	6WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3492	D: GARNOLDS-6COMORN 1 +3S27T67B-3BURTN671
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3493	D: GARNOLDS-6COMORN 1 +3S27T67B-3OAKWOOD1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3493	D: GARNOLDS-6COMORN 1 +3S27T67B-3OAKWOOD1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3493	D: GARNOLDS-6COMORN 1 +3S27T67B-3OAKWOOD1
314190	6WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3493	D: GARNOLDS-6COMORN 1 +3S27T67B-3OAKWOOD1
313810	6DAHLGREN	230.0	345	354	0.8972	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3494	D: GARNOLDS-6COMORN 1 +3AMOCO Y-3YORKTNN1
314131	GARNOLDS	230.0	345	354	0.8967	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3494	D: GARNOLDS-6COMORN 1 +3AMOCO Y-3YORKTNN1
314139	GOARGROV	230.0	345	354	0.9033	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3494	D: GARNOLDS-6COMORN 1 +3AMOCO Y-3YORKTNN1
313810	6DAHLGREN	230.0	345	354	0.8955	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3495	D: GARNOLDS-6COMORN 1 +3BLOXOMC-3MERCURY1
314131	GARNOLDS	230.0	345	354	0.8990	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3495	D: GARNOLDS-6COMORN 1 +3BLOXOMC-3MERCURY1
314139	GOARGROV	230.0	345	354	0.9074	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3495	D: GARNOLDS-6COMORN 1 +3BLOXOMC-3MERCURY1
313810	6DAHLGREN	230.0	345	354	0.8946	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3496	D: GARNOLDS-6COMORN 1 +3COLONY -3WARRICK1
314131	GARNOLDS	230.0	345	354	0.8940	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3496	D: GARNOLDS-6COMORN 1 +3COLONY -3WARRICK1
314139	GOARGROV	230.0	345	354	0.9026	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3496	D: GARNOLDS-6COMORN 1 +3COLONY -3WARRICK1
314190	6WESTMOR	230.0	345	354	0.9075	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3496	D: GARNOLDS-6COMORN 1 +3COLONY -3WARRICK1
313810	6DAHLGREN	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3497	D: GARNOLDS-6COMORN 1 +3COLONY -3YORKTNN1
314131	GARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3497	D: GARNOLDS-6COMORN 1 +3COLONY -3YORKTNN1
314139	GOARGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3497	D: GARNOLDS-6COMORN 1 +3COLONY -3YORKTNN1
314190	6WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3497	D: GARNOLDS-6COMORN 1 +3COLONY -3YORKTNN1
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3498	D: GARNOLDS-6COMORN 1 +3COPELAND-3NNWS751
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3498	D: GARNOLDS-6COMORN 1 +3COPELAND-3NNWS751
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3498	D: GARNOLDS-6COMORN 1 +3COPELAND-3NNWS751
314190	6WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3498	D: GARNOLDS-6COMORN 1 +3COPELAND-3NNWS751
313810	6DAHLGREN	230.0	345	354	0.8979	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3499	D: GARNOLDS-6COMORN 1 +3COPELAND-3WHEALTNI
314131	GARNOLDS	230.0	345	354	0.8974	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3499	D: GARNOLDS-6COMORN 1 +3COPELAND-3WHEALTNI
314139	GOARGROV	230.0	345	354	0.9059	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3499	D: GARNOLDS-6COMORN 1 +3COPELAND-3WHEALTNI
313810	6DAHLGREN	230.0	345	354	0.8894	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3500	D: GARNOLDS-6COMORN 1 +6CORRCTN-6LANEXA 1
314131	GARNOLDS	230.0	345	354	0.8888	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3500	D: GARNOLDS-6COMORN 1 +6CORRCTN-6LANEXA 1
314139	GOARGROV	230.0	345	354	0.8975	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3500	D: GARNOLDS-6COMORN 1 +6CORRCTN-6LANEXA 1
314176	6HARMONY	230.0	345	354	0.9035	1.0040	0.9300	1.0700	0.9538	1.0542	LD	3500	D: GARNOLDS-6COMORN 1 +6CORRCTN-6LANEXA 1
314182	6NORNECK	230.0	345	354	0.9080	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3500	D: GARNOLDS-6COMORN 1 +6CORRCTN-6LANEXA 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314183	6SANDERS	230.0	345	354	0.9055	0.9648	0.9300	1.0700	0.9356	1.0341	LD	3500	D: GARNOLDS-6COMORN 1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.8973	1.0014	0.9300	1.0700	0.9513	1.0515	LD	3500	D: GARNOLDS-6COMORN 1 +6CORRCTN-6LANEXA 1
314190	6WESTMOR	230.0	345	354	0.9024	0.9637	0.9300	1.0700	0.9370	1.0356	LD	3500	D: GARNOLDS-6COMORN 1 +6CORRCTN-6LANEXA 1
314195	6CORCTN	230.0	345	354	0.8969	1.0020	0.9300	1.0700	0.9519	1.0521	LD	3500	D: GARNOLDS-6COMORN 1 +6CORRCTN-6LANEXA 1
314810	6DAHLGREN	230.0	345	354	0.8918	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3501	D: GARNOLDS-6COMORN 1 +6DENBIGH-6WALR2851
314131	6GARGROV	230.0	345	354	0.8913	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3501	D: GARNOLDS-6COMORN 1 +6DENBIGH-6WALR2851
314139	6SANDERS	230.0	345	354	0.8999	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3501	D: GARNOLDS-6COMORN 1 +6DENBIGH-6WALR2851
314183	6SANDERS	230.0	345	354	0.9079	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3501	D: GARNOLDS-6COMORN 1 +6DENBIGH-6WALR2851
314190	6WESTMOR	230.0	345	354	0.9048	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3501	D: GARNOLDS-6COMORN 1 +6DENBIGH-6WALR2851
314810	6DAHLGREN	230.0	345	354	0.8943	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3502	D: GARNOLDS-6COMORN 1 +6DENBIGH-6YORKTWN1
314131	6GARGROV	230.0	345	354	0.8943	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3502	D: GARNOLDS-6COMORN 1 +6DENBIGH-6YORKTWN1
314139	6SANDERS	230.0	345	354	0.9029	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3502	D: GARNOLDS-6COMORN 1 +6DENBIGH-6YORKTWN1
314190	6WESTMOR	230.0	345	354	0.8968	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3502	D: GARNOLDS-6COMORN 1 +6DENBIGH-6YORKTWN1
314810	6DAHLGREN	230.0	345	354	0.8963	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3503	D: GARNOLDS-6COMORN 1 +3DOW 34 -3FTEUS341
314131	6GARGROV	230.0	345	354	0.8963	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3503	D: GARNOLDS-6COMORN 1 +3DOW 34 -3FTEUS341
314139	6SANDERS	230.0	345	354	0.9048	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3503	D: GARNOLDS-6COMORN 1 +3DOW 34 -3FTEUS341
314190	6WESTMOR	230.0	345	354	0.9079	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3503	D: GARNOLDS-6COMORN 1 +3DOW 34 -3FTEUS341
314810	6DAHLGREN	230.0	345	354	0.8966	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3504	D: GARNOLDS-6COMORN 1 +3DOW 34 -3LANEXA 1
314131	6GARGROV	230.0	345	354	0.8966	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3504	D: GARNOLDS-6COMORN 1 +3DOW 34 -3LANEXA 1
314139	6SANDERS	230.0	345	354	0.9046	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3504	D: GARNOLDS-6COMORN 1 +3DOW 34 -3LANEXA 1
314190	6WESTMOR	230.0	345	354	0.9095	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3504	D: GARNOLDS-6COMORN 1 +3DOW 34 -3LANEXA 1
314810	6DAHLGREN	230.0	345	354	0.8963	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3505	D: GARNOLDS-6COMORN 1 +3FTEUS34-3GRAFT341
314131	6GARGROV	230.0	345	354	0.8958	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3505	D: GARNOLDS-6COMORN 1 +3FTEUS34-3GRAFT341
314139	6SANDERS	230.0	345	354	0.9044	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3505	D: GARNOLDS-6COMORN 1 +3FTEUS34-3GRAFT341
314190	6WESTMOR	230.0	345	354	0.9093	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3505	D: GARNOLDS-6COMORN 1 +3FTEUS34-3GRAFT341
314810	6DAHLGREN	230.0	345	354	0.8930	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3506	D: GARNOLDS-6COMORN 1 +3FTEUS58-3GRAFT581
314131	6GARGROV	230.0	345	354	0.8925	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3506	D: GARNOLDS-6COMORN 1 +3FTEUS58-3GRAFT581
314139	6SANDERS	230.0	345	354	0.9011	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3506	D: GARNOLDS-6COMORN 1 +3FTEUS58-3GRAFT581
314190	6WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3506	D: GARNOLDS-6COMORN 1 +3FTEUS58-3GRAFT581
314810	6DAHLGREN	230.0	345	354	0.8930	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3507	D: GARNOLDS-6COMORN 1 +3FTEUS58-3LEBAN581
314131	6GARGROV	230.0	345	354	0.8925	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3507	D: GARNOLDS-6COMORN 1 +3FTEUS58-3LEBAN581
314139	6SANDERS	230.0	345	354	0.9011	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3507	D: GARNOLDS-6COMORN 1 +3FTEUS58-3LEBAN581
314190	6WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3507	D: GARNOLDS-6COMORN 1 +3FTEUS58-3LEBAN581
314810	6DAHLGREN	230.0	345	354	0.8930	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3507	D: GARNOLDS-6COMORN 1 +3FTEUS58-3LEBAN581
314131	6GARGROV	230.0	345	354	0.8925	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3508	D: GARNOLDS-6COMORN 1 +3GRAFT34-3YORKTWN1
314139	6SANDERS	230.0	345	354	0.9011	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3508	D: GARNOLDS-6COMORN 1 +3GRAFT34-3YORKTWN1
314190	6WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3508	D: GARNOLDS-6COMORN 1 +3GRAFT34-3YORKTWN1
314810	6DAHLGREN	230.0	345	354	0.8930	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3509	D: GARNOLDS-6COMORN 1 +3GRAFT58-3YORKTWN1
314131	6GARGROV	230.0	345	354	0.8925	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3509	D: GARNOLDS-6COMORN 1 +3GRAFT58-3YORKTWN1
314139	6SANDERS	230.0	345	354	0.9011	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3509	D: GARNOLDS-6COMORN 1 +3GRAFT58-3YORKTWN1
314190	6WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3509	D: GARNOLDS-6COMORN 1 +3GRAFT58-3YORKTWN1
314810	6DAHLGREN	230.0	345	354	0.8930	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3510	D: GARNOLDS-6COMORN 1 +3KINGS M-3TOANOS81
314131	6GARGROV	230.0	345	354	0.8925	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3510	D: GARNOLDS-6COMORN 1 +3KINGS M-3TOANOS81
314139	6SANDERS	230.0	345	354	0.9011	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3510	D: GARNOLDS-6COMORN 1 +3KINGS M-3TOANOS81

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314190	WESTMOR	230.0	345	354	0.9098	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3510	D: BARNOLDS-6COMORN 1 +3KINGS M-3TOANO581
314190	60AHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3511	D: BARNOLDS-6COMORN 1 +3KINGS M-3YNWS 581
314131	BARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3511	D: BARNOLDS-6COMORN 1 +3KINGS M-3YNWS 581
314139	60AUGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3511	D: BARNOLDS-6COMORN 1 +3KINGS M-3YNWS 581
314190	WESTMOR	230.0	345	354	0.8959	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3511	D: BARNOLDS-6COMORN 1 +3KINGS M-3YNWS 581
314190	60AHLGREN	230.0	345	354	0.8908	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3512	D: BARNOLDS-6COMORN 1 +6KINGS M-6YORKTWN1
314131	BARNOLDS	230.0	345	354	0.8903	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3512	D: BARNOLDS-6COMORN 1 +6KINGS M-6YORKTWN1
314139	60AUGROV	230.0	345	354	0.8959	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3512	D: BARNOLDS-6COMORN 1 +6KINGS M-6YORKTWN1
314182	60ORNECK	230.0	345	354	0.9034	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3512	D: BARNOLDS-6COMORN 1 +6KINGS M-6YORKTWN1
314183	60ANDERS	230.0	345	354	0.9068	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3512	D: BARNOLDS-6COMORN 1 +6KINGS M-6YORKTWN1
314190	WESTMOR	230.0	345	354	0.9038	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3512	D: BARNOLDS-6COMORN 1 +6KINGS M-6YORKTWN1
314190	60AHLGREN	230.0	345	354	0.8955	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3513	D: BARNOLDS-6COMORN 1 +3LANEXA -3NNWS581
314131	BARNOLDS	230.0	345	354	0.8960	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3513	D: BARNOLDS-6COMORN 1 +3LANEXA -3NNWS581
314139	60AUGROV	230.0	345	354	0.9045	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3513	D: BARNOLDS-6COMORN 1 +3LANEXA -3NNWS581
314190	WESTMOR	230.0	345	354	0.9094	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3513	D: BARNOLDS-6COMORN 1 +3LANEXA -3NNWS581
314190	60AHLGREN	230.0	345	354	0.8963	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3514	D: BARNOLDS-6COMORN 1 +3LANEXA -6LANEXA 1
314131	BARNOLDS	230.0	345	354	0.8957	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3514	D: BARNOLDS-6COMORN 1 +3LANEXA -6LANEXA 1
314139	60AUGROV	230.0	345	354	0.9043	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3514	D: BARNOLDS-6COMORN 1 +3LANEXA -6LANEXA 1
314190	WESTMOR	230.0	345	354	0.9092	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3514	D: BARNOLDS-6COMORN 1 +3LANEXA -6LANEXA 1
314190	60AHLGREN	230.0	345	354	0.8953	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3515	D: BARNOLDS-6COMORN 1 +3LANEXA -6LANEXA 2
314131	BARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3515	D: BARNOLDS-6COMORN 1 +3LANEXA -6LANEXA 2
314139	60AUGROV	230.0	345	354	0.9033	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3515	D: BARNOLDS-6COMORN 1 +3LANEXA -6LANEXA 2
314190	WESTMOR	230.0	345	354	0.9082	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3515	D: BARNOLDS-6COMORN 1 +3LANEXA -6LANEXA 2
314190	60AHLGREN	230.0	345	354	0.8966	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3516	D: BARNOLDS-6COMORN 1 +6LANEXA -6LIGH2091
314131	BARNOLDS	230.0	345	354	0.8961	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3516	D: BARNOLDS-6COMORN 1 +6LANEXA -6LIGH2091
314139	60AUGROV	230.0	345	354	0.9046	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3516	D: BARNOLDS-6COMORN 1 +6LANEXA -6LIGH2091
314190	WESTMOR	230.0	345	354	0.9095	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3516	D: BARNOLDS-6COMORN 1 +6LANEXA -6LIGH2091
314190	60AHLGREN	230.0	345	354	0.8780	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3517	D: BARNOLDS-6COMORN 1 +6LANEXA -6LANEX 11
314131	BARNOLDS	230.0	345	354	0.8775	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3517	D: BARNOLDS-6COMORN 1 +6LANEXA -6LANEX 11
314139	60AUGROV	230.0	345	354	0.8863	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3517	D: BARNOLDS-6COMORN 1 +6LANEXA -6LANEX 11
314172	60UNNSVL	230.0	345	354	0.9039	0.9881	0.9300	1.0700	0.9387	1.0376	LD	3517	D: BARNOLDS-6COMORN 1 +6LANEXA -6LANEX 11
314182	60ORNECK	230.0	345	354	0.8971	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3517	D: BARNOLDS-6COMORN 1 +6LANEXA -6LANEX 11
314190	WESTMOR	230.0	345	354	0.8945	0.9863	0.9300	1.0700	0.9356	1.0341	LD	3517	D: BARNOLDS-6COMORN 1 +6LANEXA -6LANEX 11
314190	60AHLGREN	230.0	345	354	0.8914	0.9894	0.9300	1.0700	0.9370	1.0356	LD	3517	D: BARNOLDS-6COMORN 1 +6LANEXA -6LANEX 11
314131	BARNOLDS	230.0	345	354	0.8958	0.9954	0.9300	1.0700	0.9400	1.0389	LD	3518	D: BARNOLDS-6COMORN 1 +3LEBAN58-3YNWS 581
314139	60AUGROV	230.0	345	354	0.8952	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3518	D: BARNOLDS-6COMORN 1 +3LEBAN58-3YNWS 581
314190	WESTMOR	230.0	345	354	0.9038	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3518	D: BARNOLDS-6COMORN 1 +3LEBAN58-3YNWS 581
314190	60AHLGREN	230.0	345	354	0.9087	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3518	D: BARNOLDS-6COMORN 1 +3LEBAN58-3YNWS 581
314131	BARNOLDS	230.0	345	354	0.8871	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3519	D: BARNOLDS-6COMORN 1 +6LIGH285-6WALR2851
314139	60AUGROV	230.0	345	354	0.8866	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3519	D: BARNOLDS-6COMORN 1 +6LIGH285-6WALR2851
314190	WESTMOR	230.0	345	354	0.9059	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3519	D: BARNOLDS-6COMORN 1 +6LIGH285-6WALR2851
314190	60AHLGREN	230.0	345	354	0.9033	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3519	D: BARNOLDS-6COMORN 1 +6LIGH285-6WALR2851
314182	60ORNECK	230.0	345	354	0.9033	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3519	D: BARNOLDS-6COMORN 1 +6LIGH285-6WALR2851
314190	WESTMOR	230.0	345	354	0.9003	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3519	D: BARNOLDS-6COMORN 1 +6LIGH285-6WALR2851
314190	60AHLGREN	230.0	345	354	0.8954	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3520	D: BARNOLDS-6COMORN 1 +6LIGH209-6WALR2091
314131	BARNOLDS	230.0	345	354	0.8949	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3520	D: BARNOLDS-6COMORN 1 +6LIGH209-6WALR2091
314139	60AUGROV	230.0	345	354	0.9034	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3520	D: BARNOLDS-6COMORN 1 +6LIGH209-6WALR2091

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	Voltrise	Viol	Ncon	Contingency Description
3141190	6WESTHOR	230.0	345	354	0.9083	0.9863	0.9300	1.0700	0.9370	1.0356	ID	3520	D:6ARNOLDS-6COMORN 1 +61IGH209-6WALR2091
3138110	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	ID	3521	D:6ARNOLDS-6COMORN 1 +3MAGRUOR-3PENINSLL1
3141311	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	ID	3521	D:6ARNOLDS-6COMORN 1 +3MAGRUOR-3PENINSLL1
3141339	6OKAGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	ID	3521	D:6ARNOLDS-6COMORN 1 +3MAGRUOR-3PENINSLL1
3141190	6WESTHOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	ID	3521	D:6ARNOLDS-6COMORN 1 +3MAGRUOR-3PENINSLL1
3138110	6DAHLGREN	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	ID	3522	D:6ARNOLDS-6COMORN 1 +3MAGRUOR-3SHELANK1
3141311	6ARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	ID	3522	D:6ARNOLDS-6COMORN 1 +3MAGRUOR-3SHELANK1
3141339	6OKAGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	ID	3522	D:6ARNOLDS-6COMORN 1 +3MAGRUOR-3SHELANK1
3141190	6WESTHOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	ID	3522	D:6ARNOLDS-6COMORN 1 +3MAGRUOR-3SHELANK1
3138110	6DAHLGREN	230.0	345	354	0.9007	0.9894	0.9300	1.0700	0.9400	1.0389	ID	3523	D:6ARNOLDS-6COMORN 1 +3MERCURY-3SHELANK1
3141311	6ARNOLDS	230.0	345	354	0.9002	0.9954	0.9300	1.0700	0.9457	1.0452	ID	3523	D:6ARNOLDS-6COMORN 1 +3MERCURY-3SHELANK1
3141339	6OKAGROV	230.0	345	354	0.9086	0.9878	0.9300	1.0700	0.9384	1.0372	ID	3523	D:6ARNOLDS-6COMORN 1 +3MERCURY-3SHELANK1
3138110	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	ID	3524	D:6ARNOLDS-6COMORN 1 +3NASHA -3PENINSLL1
3141311	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	ID	3524	D:6ARNOLDS-6COMORN 1 +3NASHA -3PENINSLL1
3141339	6OKAGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	ID	3524	D:6ARNOLDS-6COMORN 1 +3NASHA -3PENINSLL1
3141190	6WESTHOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	ID	3524	D:6ARNOLDS-6COMORN 1 +3NASHA -3PENINSLL1
3138110	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	ID	3525	D:6ARNOLDS-6COMORN 1 +3NASHA -3PENINSLL2
3141311	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	ID	3525	D:6ARNOLDS-6COMORN 1 +3NASHA -3PENINSLL2
3141339	6OKAGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	ID	3525	D:6ARNOLDS-6COMORN 1 +3NASHA -3PENINSLL2
3141190	6WESTHOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	ID	3525	D:6ARNOLDS-6COMORN 1 +3NASHA -3PENINSLL2
3138110	6DAHLGREN	230.0	345	354	0.8966	0.9894	0.9300	1.0700	0.9400	1.0389	ID	3526	D:6ARNOLDS-6COMORN 1 +3NNWS58-3TOAN0581
3141311	6ARNOLDS	230.0	345	354	0.8961	0.9954	0.9300	1.0700	0.9457	1.0452	ID	3526	D:6ARNOLDS-6COMORN 1 +3NNWS58-3TOAN0581
3141339	6OKAGROV	230.0	345	354	0.9046	0.9878	0.9300	1.0700	0.9384	1.0372	ID	3526	D:6ARNOLDS-6COMORN 1 +3NNWS58-3TOAN0581
3141190	6WESTHOR	230.0	345	354	0.9095	0.9863	0.9300	1.0700	0.9370	1.0356	ID	3526	D:6ARNOLDS-6COMORN 1 +3NNWS58-3TOAN0581
3138110	6DAHLGREN	230.0	345	354	0.8655	0.9894	0.9300	1.0700	0.9400	1.0389	ID	3527	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6PEMBROK1
3141311	6ARNOLDS	230.0	345	354	0.8649	0.9954	0.9300	1.0700	0.9457	1.0452	ID	3527	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6PEMBROK1
3141339	6OKAGROV	230.0	345	354	0.8739	0.9878	0.9300	1.0700	0.9384	1.0372	ID	3527	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6PEMBROK1
3141721	6DUNNSVL	230.0	345	354	0.8984	0.9881	0.9300	1.0700	0.9387	1.0376	ID	3527	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6PEMBROK1
3141821	6GNORNECK	230.0	345	354	0.8850	0.9844	0.9300	1.0700	0.9352	1.0341	ID	3527	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6PEMBROK1
3141831	6SANDERS	230.0	345	354	0.8823	0.9848	0.9300	1.0700	0.9356	1.0341	ID	3527	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6PEMBROK1
3141901	6WESTHOR	230.0	345	354	0.8791	0.9863	0.9300	1.0700	0.9370	1.0356	ID	3528	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6NP NE 11
3138110	6DAHLGREN	230.0	345	354	0.8912	0.9894	0.9300	1.0700	0.9400	1.0389	ID	3528	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6NP NE 11
3141311	6ARNOLDS	230.0	345	354	0.8907	0.9954	0.9300	1.0700	0.9457	1.0452	ID	3528	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6NP NE 11
3141339	6OKAGROV	230.0	345	354	0.8993	0.9878	0.9300	1.0700	0.9384	1.0372	ID	3528	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6NP NE 11
3141821	6GNORNECK	230.0	345	354	0.9098	0.9844	0.9300	1.0700	0.9352	1.0337	ID	3528	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6NP NE 11
3141831	6SANDERS	230.0	345	354	0.9072	0.9848	0.9300	1.0700	0.9370	1.0341	ID	3528	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6NP NE 11
3141901	6WESTHOR	230.0	345	354	0.9042	0.9863	0.9300	1.0700	0.9370	1.0356	ID	3528	D:6ARNOLDS-6COMORN 1 +6NP NEWS-6NP NE 11
3138110	6DAHLGREN	230.0	345	354	0.8654	0.9894	0.9300	1.0700	0.9400	1.0389	ID	3529	D:6ARNOLDS-6COMORN 1 +6PEMBROK-6SHELANK1
3141311	6ARNOLDS	230.0	345	354	0.8648	0.9954	0.9300	1.0700	0.9457	1.0452	ID	3529	D:6ARNOLDS-6COMORN 1 +6PEMBROK-6SHELANK1
3141339	6OKAGROV	230.0	345	354	0.8738	0.9878	0.9300	1.0700	0.9384	1.0372	ID	3529	D:6ARNOLDS-6COMORN 1 +6PEMBROK-6SHELANK1
3141721	6DUNNSVL	230.0	345	354	0.8983	0.9881	0.9300	1.0700	0.9387	1.0376	ID	3529	D:6ARNOLDS-6COMORN 1 +6PEMBROK-6SHELANK1
3141821	6GNORNECK	230.0	345	354	0.8849	0.9844	0.9300	1.0700	0.9352	1.0337	ID	3529	D:6ARNOLDS-6COMORN 1 +6PEMBROK-6SHELANK1
3141831	6SANDERS	230.0	345	354	0.8822	0.9848	0.9300	1.0700	0.9356	1.0341	ID	3529	D:6ARNOLDS-6COMORN 1 +6PEMBROK-6SHELANK1
3141901	6WESTHOR	230.0	345	354	0.8790	0.9863	0.9300	1.0700	0.9370	1.0356	ID	3529	D:6ARNOLDS-6COMORN 1 +6PEMBROK-6SHELANK1
3138110	6DAHLGREN	230.0	345	354	0.8957	0.9894	0.9300	1.0700	0.9400	1.0389	ID	3530	D:6ARNOLDS-6COMORN 1 +3PENINSLL1-3SEAFD761
3141311	6ARNOLDS	230.0	345	354	0.8952	0.9954	0.9300	1.0700	0.9457	1.0452	ID	3530	D:6ARNOLDS-6COMORN 1 +3PENINSLL1-3SEAFD761
3141339	6OKAGROV	230.0	345	354	0.9037	0.9878	0.9300	1.0700	0.9384	1.0372	ID	3530	D:6ARNOLDS-6COMORN 1 +3PENINSLL1-3SEAFD761

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314190	WESTMOR	230.0	345	354	0.9086	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3530	D: GARNOLDS-ECOMORN 1 +3PENINSL-3SEAFD761
313810	DAHLGREN	230.0	345	354	0.8957	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3531	D: GARNOLDS-ECOMORN 1 +3PENINSL-3SEAFD791
314131	BARNOLDS	230.0	345	354	0.8952	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3531	D: GARNOLDS-ECOMORN 1 +3PENINSL-3SEAFD791
314139	GOAKGROV	230.0	345	354	0.9037	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3531	D: GARNOLDS-ECOMORN 1 +3PENINSL-3SEAFD791
314190	WESTMOR	230.0	345	354	0.9086	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3531	D: GARNOLDS-ECOMORN 1 +3PENINSL-3SEAFD791
313810	DAHLGREN	230.0	345	354	0.8951	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3532	D: GARNOLDS-ECOMORN 1 +3PENINSL-3U CARBD1
314131	BARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3532	D: GARNOLDS-ECOMORN 1 +3PENINSL-3U CARBD1
314139	GOAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3532	D: GARNOLDS-ECOMORN 1 +3PENINSL-3U CARBD1
314190	WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3532	D: GARNOLDS-ECOMORN 1 +3PENINSL-3U CARBD1
313810	DAHLGREN	230.0	345	354	0.8946	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3533	D: GARNOLDS-ECOMORN 1 +3PENINSL-3PENIN 11
314131	BARNOLDS	230.0	345	354	0.8941	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3533	D: GARNOLDS-ECOMORN 1 +3PENINSL-3PENIN 11
314139	GOAKGROV	230.0	345	354	0.9027	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3533	D: GARNOLDS-ECOMORN 1 +3PENINSL-3PENIN 11
314190	WESTMOR	230.0	345	354	0.9076	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3533	D: GARNOLDS-ECOMORN 1 +3PENINSL-3PENIN 11
313810	DAHLGREN	230.0	345	354	0.8955	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3533	D: GARNOLDS-ECOMORN 1 +3PENINSL-3PENIN 11
314131	BARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3534	D: GARNOLDS-ECOMORN 1 +3PENINSL-6PENINSL1
314139	GOAKGROV	230.0	345	354	0.9035	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3534	D: GARNOLDS-ECOMORN 1 +3PENINSL-6PENINSL1
314190	WESTMOR	230.0	345	354	0.9084	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3534	D: GARNOLDS-ECOMORN 1 +3PENINSL-6PENINSL1
313810	DAHLGREN	230.0	345	354	0.8942	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3535	D: GARNOLDS-ECOMORN 1 +6PENINSL-6SHELBNK1
314131	BARNOLDS	230.0	345	354	0.8942	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3535	D: GARNOLDS-ECOMORN 1 +6PENINSL-6SHELBNK1
314139	GOAKGROV	230.0	345	354	0.9028	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3535	D: GARNOLDS-ECOMORN 1 +6PENINSL-6SHELBNK1
314190	WESTMOR	230.0	345	354	0.9077	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3535	D: GARNOLDS-ECOMORN 1 +6PENINSL-6SHELBNK1
313810	DAHLGREN	230.0	345	354	0.8981	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3536	D: GARNOLDS-ECOMORN 1 +6PENINSL-6TABB 1
314131	BARNOLDS	230.0	345	354	0.8981	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3536	D: GARNOLDS-ECOMORN 1 +6PENINSL-6TABB 1
314139	GOAKGROV	230.0	345	354	0.9066	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3536	D: GARNOLDS-ECOMORN 1 +6PENINSL-6TABB 1
314190	WESTMOR	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3537	D: GARNOLDS-ECOMORN 1 +3SEAFD76-3YORKTWN1
313810	DAHLGREN	230.0	345	354	0.8953	0.9878	0.9300	1.0700	0.9457	1.0452	LD	3537	D: GARNOLDS-ECOMORN 1 +3SEAFD76-3YORKTWN1
314131	BARNOLDS	230.0	345	354	0.9039	0.9954	0.9300	1.0700	0.9384	1.0372	LD	3537	D: GARNOLDS-ECOMORN 1 +3SEAFD76-3YORKTWN1
314139	GOAKGROV	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3537	D: GARNOLDS-ECOMORN 1 +3SEAFD76-3YORKTWN1
314190	WESTMOR	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3538	D: GARNOLDS-ECOMORN 1 +3SEAFD79-3YORKTWN1
313810	DAHLGREN	230.0	345	354	0.8959	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3538	D: GARNOLDS-ECOMORN 1 +3SEAFD79-3YORKTWN1
314131	BARNOLDS	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3538	D: GARNOLDS-ECOMORN 1 +3SEAFD79-3YORKTWN1
314139	GOAKGROV	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3538	D: GARNOLDS-ECOMORN 1 +3SEAFD79-3YORKTWN1
314190	WESTMOR	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3539	D: GARNOLDS-ECOMORN 1 +3SHELBNK-3WHEALTNI
313810	DAHLGREN	230.0	345	354	0.8960	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3539	D: GARNOLDS-ECOMORN 1 +3SHELBNK-3WHEALTNI
314131	BARNOLDS	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3539	D: GARNOLDS-ECOMORN 1 +3SHELBNK-3WHEALTNI
314139	GOAKGROV	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3539	D: GARNOLDS-ECOMORN 1 +3SHELBNK-3WHEALTNI
314190	WESTMOR	230.0	345	354	0.8951	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3539	D: GARNOLDS-ECOMORN 1 +3SHELBNK-3WHEALTNI
313810	DAHLGREN	230.0	345	354	0.8945	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3540	D: GARNOLDS-ECOMORN 1 +3SHELBNK-6SHELBNK1
314131	BARNOLDS	230.0	345	354	0.9031	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3540	D: GARNOLDS-ECOMORN 1 +3SHELBNK-6SHELBNK1
314139	GOAKGROV	230.0	345	354	0.9080	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3540	D: GARNOLDS-ECOMORN 1 +3SHELBNK-6SHELBNK1
314190	WESTMOR	230.0	345	354	0.9007	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3541	D: GARNOLDS-ECOMORN 1 +6TABB -6YORKTWN1
313810	DAHLGREN	230.0	345	354	0.9002	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3541	D: GARNOLDS-ECOMORN 1 +6TABB -6YORKTWN1
314131	BARNOLDS	230.0	345	354	0.9087	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3541	D: GARNOLDS-ECOMORN 1 +6TABB -6YORKTWN1
314139	GOAKGROV	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3542	D: GARNOLDS-ECOMORN 1 +3U CARBD-3WHEALTNI
314190	WESTMOR	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3542	D: GARNOLDS-ECOMORN 1 +3U CARBD-3WHEALTNI
313810	DAHLGREN	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3542	D: GARNOLDS-ECOMORN 1 +3U CARBD-3WHEALTNI
314131	BARNOLDS	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3542	D: GARNOLDS-ECOMORN 1 +3U CARBD-3WHEALTNI

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	GDHILGREN	230.0		345	0.8933	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3543	D: GARNOLDS-6COMORN 1 +3WAWTICK-3WHEALTNI
314131	GARNOLDS	230.0		345	0.8928	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3543	D: GARNOLDS-6COMORN 1 +3WAWTICK-3WHEALTNI
314139	GOANGROV	230.0		345	0.9014	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3543	D: GARNOLDS-6COMORN 1 +3WAWTICK-3WHEALTNI
314183	GSANDERS	230.0		345	0.9023	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3543	D: GARNOLDS-6COMORN 1 +3WAWTICK-3WHEALTNI
314190	GWESTHOR	230.0		345	0.9063	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3543	D: GARNOLDS-6COMORN 1 +3WAWTICK-3WHEALTNI
313810	GDHILGREN	230.0		345	0.8944	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3544	D: GARNOLDS-6COMORN 1 +6WAWTICK-6WHEALTNI
314131	GARNOLDS	230.0		345	0.8939	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3544	D: GARNOLDS-6COMORN 1 +6WAWTICK-6WHEALTNI
314139	GOANGROV	230.0		345	0.9025	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3544	D: GARNOLDS-6COMORN 1 +6WAWTICK-6WHEALTNI
314190	GWESTHOR	230.0		345	0.9074	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3544	D: GARNOLDS-6COMORN 1 +6WAWTICK-6WHEALTNI
313810	GDHILGREN	230.0		345	0.8950	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3545	D: GARNOLDS-6COMORN 1 +3WHEALTIN-6WHEALTNI
314131	GARNOLDS	230.0		345	0.8950	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3545	D: GARNOLDS-6COMORN 1 +3WHEALTIN-6WHEALTNI
314139	GOANGROV	230.0		345	0.9036	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3545	D: GARNOLDS-6COMORN 1 +3WHEALTIN-6WHEALTNI
314190	GWESTHOR	230.0		345	0.9085	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3545	D: GARNOLDS-6COMORN 1 +3WHEALTIN-6WHEALTNI
313810	GDHILGREN	230.0		345	0.8955	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3546	D: GARNOLDS-6COMORN 1 +3WHEALTIN-6WHEALTNI
314131	GARNOLDS	230.0		345	0.8950	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3546	D: GARNOLDS-6COMORN 1 +3WHEALTIN-6WHEALTNI
314139	GOANGROV	230.0		345	0.9035	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3546	D: GARNOLDS-6COMORN 1 +3WHEALTIN-6WHEALTNI
314190	GWESTHOR	230.0		345	0.9084	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3546	D: GARNOLDS-6COMORN 1 +3WHEALTIN-6WHEALTNI
313810	GDHILGREN	230.0		345	0.8988	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3547	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314131	GARNOLDS	230.0		345	0.8892	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3547	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314139	GOANGROV	230.0		345	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3547	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314182	GNORNECK	230.0		345	0.9084	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3547	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314190	GWESTHOR	230.0		345	0.9028	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3547	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
313810	GDHILGREN	230.0		345	0.8982	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3548	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314131	GARNOLDS	230.0		345	0.8886	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3548	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314139	GOANGROV	230.0		345	0.8973	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3548	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314182	GNORNECK	230.0		345	0.9078	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3548	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314190	GWESTHOR	230.0		345	0.9053	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3548	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
313810	GDHILGREN	230.0		345	0.9022	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3549	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314131	GARNOLDS	230.0		345	0.8737	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3549	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314139	GOANGROV	230.0		345	0.8731	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3549	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314172	GDUNNSVL	230.0		345	0.8820	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3549	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314182	GNORNECK	230.0		345	0.9059	0.9801	0.9300	1.0700	0.9387	1.0376	LD	3549	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314190	GWESTHOR	230.0		345	0.8929	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3549	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
313810	GDHILGREN	230.0		345	0.8903	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3549	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314131	GARNOLDS	230.0		345	0.8871	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3549	D: GARNOLDS-6COMORN 1 +6WHEALTIN-6WHEALTNI
314139	GOANGROV	230.0		345	0.8954	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3550	D: GARNOLDS-6COMORN 1 +3YORKTWN-3YORK PS1
314182	GNORNECK	230.0		345	0.8949	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3550	D: GARNOLDS-6COMORN 1 +3YORKTWN-3YORK PS1
314190	GWESTHOR	230.0		345	0.9035	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3550	D: GARNOLDS-6COMORN 1 +3YORKTWN-3YORK PS1
313810	GDHILGREN	230.0		345	0.9084	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3551	D: GARNOLDS-6COMORN 1 +3YORKTWN-3YORK PS1
314131	GARNOLDS	230.0		345	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3551	D: GARNOLDS-6COMORN 1 +3YORKTWN-3YORK PS1
314139	GOANGROV	230.0		345	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3551	D: GARNOLDS-6COMORN 1 +3YORKTWN-3YORK PS1
314190	GWESTHOR	230.0		345	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3551	D: GARNOLDS-6COMORN 1 +3YORKTWN-3YORK PS1
313810	GDHILGREN	230.0		345	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3551	D: GARNOLDS-6COMORN 1 +3YORKTWN-3YORK PS1
314131	GARNOLDS	230.0		345	0.8822	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3552	D: GARNOLDS-6COMORN 1 +6YORKTWN-6YORKT 11
314139	GOANGROV	230.0		345	0.8817	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3552	D: GARNOLDS-6COMORN 1 +6YORKTWN-6YORKT 11
314182	GNORNECK	230.0		345	0.8944	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3552	D: GARNOLDS-6COMORN 1 +6YORKTWN-6YORKT 11

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	Voltdrop	Voltrise	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3564	D: GARNOLDS-ECOMORN 1 + 6BOWERS -6CHRHIND1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3564	D: GARNOLDS-ECOMORN 1 + 6BOWERS -6CHRHIND1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3564	D: GARNOLDS-ECOMORN 1 + 6BOWERS -6CHRHIND1
314190	6WESTMOR	230.0	345	354	0.9041	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3564	D: GARNOLDS-ECOMORN 1 + 6BOWERS -6CHRHIND1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3565	D: GARNOLDS-ECOMORN 1 + 6BOWERS -6YADKIN 1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3565	D: GARNOLDS-ECOMORN 1 + 6BOWERS -6YADKIN 1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3565	D: GARNOLDS-ECOMORN 1 + 6BOWERS -6YADKIN 1
314190	6WESTMOR	230.0	345	354	0.9041	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3565	D: GARNOLDS-ECOMORN 1 + 6BOWERS -6YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3566	D: GARNOLDS-ECOMORN 1 + 3BURTN67-3DAVIS671
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3566	D: GARNOLDS-ECOMORN 1 + 3BURTN67-3DAVIS671
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3566	D: GARNOLDS-ECOMORN 1 + 3BURTN67-3DAVIS671
314190	6WESTMOR	230.0	345	354	0.9041	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3566	D: GARNOLDS-ECOMORN 1 + 3BURTN67-3DAVIS671
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3567	D: GARNOLDS-ECOMORN 1 + 3BURTN67-3DAVIS271
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3567	D: GARNOLDS-ECOMORN 1 + 3BURTN67-3DAVIS271
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3567	D: GARNOLDS-ECOMORN 1 + 3BURTN67-3DAVIS271
314190	6WESTMOR	230.0	345	354	0.9041	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3567	D: GARNOLDS-ECOMORN 1 + 3BURTN67-3DAVIS271
313810	6DAHLGREN	230.0	345	354	0.8956	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3568	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3CMN GAS1
314131	GARNOLDS	230.0	345	354	0.8960	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3568	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3CMN GAS1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3568	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3CMN GAS1
314190	6WESTMOR	230.0	345	354	0.9041	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3568	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3CMN GAS1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3569	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3CRADOCK1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3569	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3CRADOCK1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3569	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3CRADOCK1
314190	6WESTMOR	230.0	345	354	0.9041	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3569	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3CRADOCK1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3570	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DEEPC461
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3570	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DEEPC461
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3570	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DEEPC461
314190	6WESTMOR	230.0	345	354	0.9041	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3570	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DEEPC461
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3571	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DEEPC871
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3571	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DEEPC871
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3571	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DEEPC871
314190	6WESTMOR	230.0	345	354	0.9041	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3571	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DEEPC871
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3572	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DOOTER 1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3572	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DOOTER 1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3572	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DOOTER 1
314190	6WESTMOR	230.0	345	354	0.9041	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3572	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3DOOTER 1
313810	6DAHLGREN	230.0	345	354	0.8955	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3573	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3GOSFORT1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3573	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3GOSFORT1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3573	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3GOSFORT1
314190	6WESTMOR	230.0	345	354	0.9041	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3573	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3GOSFORT1
313810	6DAHLGREN	230.0	345	354	0.8956	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3574	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3REEVES 1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3574	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3REEVES 1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3574	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3REEVES 1
314190	6WESTMOR	230.0	345	354	0.9041	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3574	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3REEVES 1
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3575	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3CHESPTX1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3575	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3CHESPTX1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3575	D: GARNOLDS-ECOMORN 1 + 3CHESAPK-3CHESPTX1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3575	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-3CHESPTX1
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3576	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6CHESPTX1
314131	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3576	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6CHESPTX1
314139	6OAKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3576	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6CHESPTX1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3576	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6CHESPTX1
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3577	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6GRENWCH1
314131	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3577	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6GRENWCH1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3577	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6GRENWCH1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9400	1.0356	LD	3578	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.8955	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3578	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6YADKIN 1
314131	6ARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3578	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6YADKIN 1
314139	6OAKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3578	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6YADKIN 1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3578	D: 6ARNOLDS-6COMORN 1 + 3CHESAPK-6YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3579	D: 6ARNOLDS-6COMORN 1 + 3CHESPTX-6CHESPTX1
314131	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3579	D: 6ARNOLDS-6COMORN 1 + 3CHESPTX-6CHESPTX1
314139	6OAKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3579	D: 6ARNOLDS-6COMORN 1 + 3CHESPTX-6CHESPTX1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9400	1.0356	LD	3580	D: 6ARNOLDS-6COMORN 1 + 3CHRHLD-3HODGE F1
313810	6DAHLGREN	230.0	345	354	0.8955	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3580	D: 6ARNOLDS-6COMORN 1 + 3CHRHLD-3HODGE F1
314131	6ARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3580	D: 6ARNOLDS-6COMORN 1 + 3CHRHLD-3HODGE F1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3580	D: 6ARNOLDS-6COMORN 1 + 3CHRHLD-3HODGE F1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3580	D: 6ARNOLDS-6COMORN 1 + 3CHRHLD-3HODGE F1
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3581	D: 6ARNOLDS-6COMORN 1 + 3CHRHLD-6CHRHLD1
314131	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3581	D: 6ARNOLDS-6COMORN 1 + 3CHRHLD-6CHRHLD1
314139	6OAKGROV	230.0	345	354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3581	D: 6ARNOLDS-6COMORN 1 + 3CHRHLD-6CHRHLD1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3581	D: 6ARNOLDS-6COMORN 1 + 3CHRHLD-6CHRHLD1
313810	6DAHLGREN	230.0	345	354	0.8954	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3582	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6HARBORV1
314131	6ARNOLDS	230.0	345	354	0.8959	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3582	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6HARBORV1
314139	6OAKGROV	230.0	345	354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3582	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6HARBORV1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3582	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6HARBORV1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3583	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6LAK KING1
314131	6ARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3583	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6LAK KING1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3583	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6LAK KING1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3583	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6LAK KING1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3584	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6SEWLSPT1
314131	6ARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3584	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6SEWLSPT1
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3584	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6SEWLSPT1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3584	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6SEWLSPT1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3585	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6SEWLSPT2
314131	6ARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3585	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6SEWLSPT2
314139	6OAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3585	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6SEWLSPT2
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3585	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6SEWLSPT2
313810	6DAHLGREN	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3586	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6CHRH1 11
314131	6ARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3586	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6CHRH1 11
314139	6OAKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3586	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6CHRH1 11
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3586	D: 6ARNOLDS-6COMORN 1 + 6CHRHLD-6CHRH1 11
313810	6DAHLGREN	230.0	345	354	0.8965	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3587	D: 6ARNOLDS-6COMORN 1 + 3CMN GAS-3GRASFLO1
314131	6ARNOLDS	230.0	345	354	0.8960	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3587	D: 6ARNOLDS-6COMORN 1 + 3CMN GAS-3GRASFLO1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314139	60AKGROV	230.0	345	354	0.9045	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3587	D: GARNOLDS-6COMORN 1 + 3CMN GAS-3GRASFLO1
314190	60WESTMOR	230.0	345	354	0.9094	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3587	D: GARNOLDS-6COMORN 1 + 3CMN GAS-3GRASFLO1
313810	60AHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3588	D: GARNOLDS-6COMORN 1 + 3CRADOCK-3REEVES 1
314131	60ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3588	D: GARNOLDS-6COMORN 1 + 3CRADOCK-3REEVES 1
314139	60AKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3588	D: GARNOLDS-6COMORN 1 + 3CRADOCK-3REEVES 1
314190	60WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3588	D: GARNOLDS-6COMORN 1 + 3CRADOCK-3REEVES 1
313810	60AHLGREN	230.0	345	354	0.8966	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3589	D: GARNOLDS-6COMORN 1 + 3CRADOCK-3SHEA 1
314131	60ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3589	D: GARNOLDS-6COMORN 1 + 3CRADOCK-3SHEA 1
314139	60AKGROV	230.0	345	354	0.9046	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3589	D: GARNOLDS-6COMORN 1 + 3CRADOCK-3SHEA 1
314190	60WESTMOR	230.0	345	354	0.9095	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3589	D: GARNOLDS-6COMORN 1 + 3CRADOCK-3SHEA 1
313810	60AHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3590	D: GARNOLDS-6COMORN 1 + 3DAVIS67-3GRENWCH1
314131	60ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3590	D: GARNOLDS-6COMORN 1 + 3DAVIS67-3GRENWCH1
314139	60AKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3590	D: GARNOLDS-6COMORN 1 + 3DAVIS67-3GRENWCH1
314190	60WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3590	D: GARNOLDS-6COMORN 1 + 3DAVIS67-3GRENWCH1
313810	60AHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3591	D: GARNOLDS-6COMORN 1 + 3DAVIS27-3GRENWCH1
314131	60ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3591	D: GARNOLDS-6COMORN 1 + 3DAVIS27-3GRENWCH1
314139	60AKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3591	D: GARNOLDS-6COMORN 1 + 3DAVIS27-3GRENWCH1
314190	60WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3591	D: GARNOLDS-6COMORN 1 + 3DAVIS27-3GRENWCH1
313810	60AHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3592	D: GARNOLDS-6COMORN 1 + 3DEEPC46-3YADKIN 1
314131	60ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3592	D: GARNOLDS-6COMORN 1 + 3DEEPC46-3YADKIN 1
314139	60AKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3592	D: GARNOLDS-6COMORN 1 + 3DEEPC46-3YADKIN 1
314190	60WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3592	D: GARNOLDS-6COMORN 1 + 3DEEPC46-3YADKIN 1
313810	60AHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3593	D: GARNOLDS-6COMORN 1 + 6DOZIER -6ELIZ R 1
314131	60ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3593	D: GARNOLDS-6COMORN 1 + 6DOZIER -6ELIZ R 1
314139	60AKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3593	D: GARNOLDS-6COMORN 1 + 6DOZIER -6ELIZ R 1
314190	60WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3593	D: GARNOLDS-6COMORN 1 + 6DOZIER -6ELIZ R 1
313810	60AHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3594	D: GARNOLDS-6COMORN 1 + 6DOZIER -6GRENWCH1
314131	60ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3594	D: GARNOLDS-6COMORN 1 + 6DOZIER -6GRENWCH1
314139	60AKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3594	D: GARNOLDS-6COMORN 1 + 6DOZIER -6GRENWCH1
314190	60WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3594	D: GARNOLDS-6COMORN 1 + 6DOZIER -6GRENWCH1
313810	60AHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3595	D: GARNOLDS-6COMORN 1 + 6ELIZ R -6YADKIN 1
314131	60ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3595	D: GARNOLDS-6COMORN 1 + 6ELIZ R -6YADKIN 1
314139	60AKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3595	D: GARNOLDS-6COMORN 1 + 6ELIZ R -6YADKIN 1
314190	60WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3595	D: GARNOLDS-6COMORN 1 + 6ELIZ R -6YADKIN 1
313810	60AHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3596	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR11
314131	60ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3596	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR11
314139	60AKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3596	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR11
314190	60WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3596	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR11
313810	60AHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3597	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR21
314131	60ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3597	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR21
314139	60AKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3597	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR21
314190	60WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3597	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR21
313810	60AHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3598	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR31
314131	60ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3598	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR31
314139	60AKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3598	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR31
314190	60WESTMOR	230.0	345	354	0.9099	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3598	D: GARNOLDS-6COMORN 1 + 6ELIZ R -LELIZAR31
313810	60AHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3599	D: GARNOLDS-6COMORN 1 + 6FENTRES-CLANDSTH1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRaise	Viol	Noon	Contingency Description
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3599	D: GARNOLDS-ECOMORN 1 +6FENTRES-6LANDSTH1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3599	D: GARNOLDS-ECOMORN 1 +6FENTRES-6LANDSTH1
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3599	D: GARNOLDS-ECOMORN 1 +6FENTRES-6LANDSTH1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3600	D: GARNOLDS-ECOMORN 1 +6FENTRES-6THRS2791
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3600	D: GARNOLDS-ECOMORN 1 +6FENTRES-6THRS2791
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3600	D: GARNOLDS-ECOMORN 1 +6FENTRES-6THRS2791
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3601	D: GARNOLDS-ECOMORN 1 +6FENTRES-6HICKORY1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3601	D: GARNOLDS-ECOMORN 1 +6FENTRES-6HICKORY1
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3601	D: GARNOLDS-ECOMORN 1 +6FENTRES-6HICKORY1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3602	D: GARNOLDS-ECOMORN 1 +6FENTRES-6FENTR 11
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3602	D: GARNOLDS-ECOMORN 1 +6FENTRES-6FENTR 11
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3602	D: GARNOLDS-ECOMORN 1 +6FENTRES-6FENTR 11
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3603	D: GARNOLDS-ECOMORN 1 +6FENTRES-6FENTR 21
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3603	D: GARNOLDS-ECOMORN 1 +6FENTRES-6FENTR 21
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3603	D: GARNOLDS-ECOMORN 1 +6FENTRES-6FENTR 21
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3604	D: GARNOLDS-ECOMORN 1 +6FENTRES-8FENTRES1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3604	D: GARNOLDS-ECOMORN 1 +6FENTRES-8FENTRES1
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3604	D: GARNOLDS-ECOMORN 1 +6FENTRES-8FENTRES1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3605	D: GARNOLDS-ECOMORN 1 +6FENTRES-8FENTRES2
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3605	D: GARNOLDS-ECOMORN 1 +6FENTRES-8FENTRES2
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3605	D: GARNOLDS-ECOMORN 1 +6FENTRES-8FENTRES2
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3606	D: GARNOLDS-ECOMORN 1 +3GREATBR-3HICKORY1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3606	D: GARNOLDS-ECOMORN 1 +3GREATBR-3HICKORY1
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3606	D: GARNOLDS-ECOMORN 1 +3GREATBR-3HICKORY1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3607	D: GARNOLDS-ECOMORN 1 +3GRASFLD-3GREAT B1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3607	D: GARNOLDS-ECOMORN 1 +3GRASFLD-3GREAT B1
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3607	D: GARNOLDS-ECOMORN 1 +3GRASFLD-3GREAT B1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3608	D: GARNOLDS-ECOMORN 1 +6GRN RUN-6GRENWCH1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3608	D: GARNOLDS-ECOMORN 1 +6GRN RUN-6GRENWCH1
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3608	D: GARNOLDS-ECOMORN 1 +6GRN RUN-6GRENWCH1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3609	D: GARNOLDS-ECOMORN 1 +6GRN RUN-6LYNHAVN1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3609	D: GARNOLDS-ECOMORN 1 +6GRN RUN-6LYNHAVN1
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3609	D: GARNOLDS-ECOMORN 1 +6GRN RUN-6LYNHAVN1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3610	D: GARNOLDS-ECOMORN 1 +3GRENWCH-3THOLE S1
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3610	D: GARNOLDS-ECOMORN 1 +3GRENWCH-3THOLE S1
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3610	D: GARNOLDS-ECOMORN 1 +3GRENWCH-3THOLE S1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
313810	GDHLGREN	230.0	345	354	0.8966	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3611	D: GARNOLDS-ECOMORN 1 +3GRENWCH-3THOMPEN1
314131	GARNOLDS	230.0	345	354	0.8961	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3611	D: GARNOLDS-ECOMORN 1 +3GRENWCH-3THOMPEN1
314139	GOARGROV	230.0	345	354	0.9047	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3611	D: GARNOLDS-ECOMORN 1 +3GRENWCH-3THOMPEN1
314190	WESTMOR	230.0	345	354	0.9096	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3611	D: GARNOLDS-ECOMORN 1 +3GRENWCH-3THOMPEN1
313810	GDHLGREN	230.0	345	354	0.8966	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3612	D: GARNOLDS-ECOMORN 1 +3GRENWCH-3GRENW 11
314131	GARNOLDS	230.0	345	354	0.8964	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3612	D: GARNOLDS-ECOMORN 1 +3GRENWCH-3GRENW 11
314139	GOARGROV	230.0	345	354	0.9049	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3612	D: GARNOLDS-ECOMORN 1 +3GRENWCH-3GRENW 11
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3612	D: GARNOLDS-ECOMORN 1 +3GRENWCH-3GRENW 11
313810	GDHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3613	D: GARNOLDS-ECOMORN 1 +3GRENWCH-6GRENWCH1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3613	D: GARNOLDS-ECOMORN 1 +3GRENWCH-6GRENWCH1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3613	D: GARNOLDS-ECOMORN 1 +3GRENWCH-6GRENWCH1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3613	D: GARNOLDS-ECOMORN 1 +3GRENWCH-6GRENWCH1
313810	GDHLGREN	230.0	345	354	0.8962	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3614	D: GARNOLDS-ECOMORN 1 +3GRENWCH-6GRENWCH2
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3614	D: GARNOLDS-ECOMORN 1 +3GRENWCH-6GRENWCH2
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3614	D: GARNOLDS-ECOMORN 1 +3GRENWCH-6GRENWCH2
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3614	D: GARNOLDS-ECOMORN 1 +3GRENWCH-6GRENWCH2
313810	GDHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3615	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6REEVES 1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3615	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6REEVES 1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3615	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6REEVES 1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3615	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6REEVES 1
313810	GDHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3616	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6THALIA 1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3616	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6THALIA 1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3616	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6THALIA 1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3616	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6THALIA 1
313810	GDHLGREN	230.0	345	354	0.8965	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3617	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6GRENW 11
314131	GARNOLDS	230.0	345	354	0.8959	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3617	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6GRENW 11
314139	GOARGROV	230.0	345	354	0.9033	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3617	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6GRENW 11
314190	WESTMOR	230.0	345	354	0.9082	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3617	D: GARNOLDS-ECOMORN 1 +6GRENWCH-6GRENW 11
313810	GDHLGREN	230.0	345	354	0.8965	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3618	D: GARNOLDS-ECOMORN 1 +6HARBORV-6YADKIN 1
314131	GARNOLDS	230.0	345	354	0.8959	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3618	D: GARNOLDS-ECOMORN 1 +6HARBORV-6YADKIN 1
314139	GOARGROV	230.0	345	354	0.9045	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3618	D: GARNOLDS-ECOMORN 1 +6HARBORV-6YADKIN 1
314190	WESTMOR	230.0	345	354	0.9094	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3618	D: GARNOLDS-ECOMORN 1 +6HARBORV-6YADKIN 1
313810	GDHLGREN	230.0	345	354	0.8965	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3619	D: GARNOLDS-ECOMORN 1 +6HARBORV-6SMITFLD1
314131	GARNOLDS	230.0	345	354	0.8959	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3619	D: GARNOLDS-ECOMORN 1 +6HARBORV-6SMITFLD1
314139	GOARGROV	230.0	345	354	0.9045	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3619	D: GARNOLDS-ECOMORN 1 +6HARBORV-6SMITFLD1
314190	WESTMOR	230.0	345	354	0.9094	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3619	D: GARNOLDS-ECOMORN 1 +6HARBORV-6SMITFLD1
313810	GDHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3620	D: GARNOLDS-ECOMORN 1 +3HICKORY-6HICKORY1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3620	D: GARNOLDS-ECOMORN 1 +3HICKORY-6HICKORY1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3620	D: GARNOLDS-ECOMORN 1 +3HICKORY-6HICKORY1
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3620	D: GARNOLDS-ECOMORN 1 +3HICKORY-6HICKORY1
313810	GDHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3621	D: GARNOLDS-ECOMORN 1 +3IND PRK-3REEVES 1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3621	D: GARNOLDS-ECOMORN 1 +3IND PRK-3REEVES 1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3621	D: GARNOLDS-ECOMORN 1 +3IND PRK-3REEVES 1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3621	D: GARNOLDS-ECOMORN 1 +3IND PRK-3REEVES 1
313810	GDHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3622	D: GARNOLDS-ECOMORN 1 +3IND PRK-3THOLE S1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3622	D: GARNOLDS-ECOMORN 1 +3IND PRK-3THOLE S1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3622	D: GARNOLDS-ECOMORN 1 +3IND PRK-3THOLE S1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Neon	Contingency Description
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3622	D: GARNOLDS-ECOMORN 1 +3IND PRK-3THOLE S1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3623	D: GARNOLDS-ECOMORN 1 +3LANDSTN-3P ANNE 1
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3623	D: GARNOLDS-ECOMORN 1 +3LANDSTN-3P ANNE 1
314139	6GARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3623	D: GARNOLDS-ECOMORN 1 +3LANDSTN-3P ANNE 1
314190	6WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3623	D: GARNOLDS-ECOMORN 1 +3LANDSTN-3P ANNE 1
313810	6DAHLGREN	230.0	345	354	0.8969	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3624	D: GARNOLDS-ECOMORN 1 +3LANDSTN-6LANDSTN1
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3624	D: GARNOLDS-ECOMORN 1 +3LANDSTN-6LANDSTN1
314139	6GARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3624	D: GARNOLDS-ECOMORN 1 +3LANDSTN-6LANDSTN1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3624	D: GARNOLDS-ECOMORN 1 +3LANDSTN-6LANDSTN1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3625	D: GARNOLDS-ECOMORN 1 +3LANDSTN-6LANDSTN2
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3625	D: GARNOLDS-ECOMORN 1 +3LANDSTN-6LANDSTN2
314139	6GARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3625	D: GARNOLDS-ECOMORN 1 +3LANDSTN-6LANDSTN2
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3625	D: GARNOLDS-ECOMORN 1 +3LANDSTN-6LANDSTN2
313810	6DAHLGREN	230.0	345	354	0.8969	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3626	D: GARNOLDS-ECOMORN 1 +6HUNTSMN-6THRS2791
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3626	D: GARNOLDS-ECOMORN 1 +6HUNTSMN-6THRS2791
314139	6GARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3626	D: GARNOLDS-ECOMORN 1 +6HUNTSMN-6THRS2791
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3627	D: GARNOLDS-ECOMORN 1 +6HUNTSMN-6SUFFOLK1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3627	D: GARNOLDS-ECOMORN 1 +6HUNTSMN-6SUFFOLK1
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3627	D: GARNOLDS-ECOMORN 1 +6HUNTSMN-6SUFFOLK1
314139	6GARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3627	D: GARNOLDS-ECOMORN 1 +6HUNTSMN-6SUFFOLK1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3628	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6LYNHAVNI
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3628	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6LYNHAVNI
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3628	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6LYNHAVNI
314139	6GARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3628	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6LYNHAVNI
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3629	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6STUMPY 1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3629	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6STUMPY 1
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3629	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6STUMPY 1
314139	6GARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3629	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6STUMPY 1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3630	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6W LAND 1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3630	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6W LAND 1
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3630	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6W LAND 1
314139	6GARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3630	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6W LAND 1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3631	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6LANDS 11
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3631	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6LANDS 11
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3631	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6LANDS 11
314139	6GARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3631	D: GARNOLDS-ECOMORN 1 +6LANDSTN-6LANDS 11
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3632	D: GARNOLDS-ECOMORN 1 +3LONDONB-3PENDLTH1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3632	D: GARNOLDS-ECOMORN 1 +3LONDONB-3PENDLTH1
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3632	D: GARNOLDS-ECOMORN 1 +3LONDONB-3PENDLTH1
314139	6GARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3632	D: GARNOLDS-ECOMORN 1 +3LONDONB-3PENDLTH1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3633	D: GARNOLDS-ECOMORN 1 +3LONDONB-3P ANNE 1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3633	D: GARNOLDS-ECOMORN 1 +3LONDONB-3P ANNE 1
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3633	D: GARNOLDS-ECOMORN 1 +3LONDONB-3P ANNE 1
314139	6GARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3633	D: GARNOLDS-ECOMORN 1 +3LONDONB-3P ANNE 1
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3634	D: GARNOLDS-ECOMORN 1 +6HARBORV-6CRITTDNI
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3634	D: GARNOLDS-ECOMORN 1 +6HARBORV-6CRITTDNI
314131	6GARGROV	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3634	D: GARNOLDS-ECOMORN 1 +6HARBORV-6CRITTDNI

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314139	60AKGROV	230.0	345	354	0.9043	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3634	D: 6ARNOLDS-6COMORN 1 + 6HARBORV-6CRITTDH1
314190	60WESTMOR	230.0	345	354	0.9092	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3634	D: 6ARNOLDS-6COMORN 1 + 6HARBORV-6CRITTDH1
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3635	D: 6ARNOLDS-6COMORN 1 + 6L KING-1LKRTNGAI
314131	60ARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3635	D: 6ARNOLDS-6COMORN 1 + 6L KING-1LKRTNGAI
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3635	D: 6ARNOLDS-6COMORN 1 + 6L KING-1LKRTNGAI
314190	60WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3635	D: 6ARNOLDS-6COMORN 1 + 6L KING-1LKRTNGAI
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3636	D: 6ARNOLDS-6COMORN 1 + 6L KING-1LKRTNGAI
314131	60ARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3636	D: 6ARNOLDS-6COMORN 1 + 6L KING-1LKRTNGAI
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3636	D: 6ARNOLDS-6COMORN 1 + 6L KING-1LKRTNGAI
314190	60WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3636	D: 6ARNOLDS-6COMORN 1 + 6L KING-1LKRTNGAI
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3637	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6VA BCH 1
314131	60ARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3637	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6VA BCH 1
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3637	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6VA BCH 1
314190	60WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3637	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6VA BCH 1
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3638	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6THALIA 1
314131	60ARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3638	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6THALIA 1
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3638	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6THALIA 1
314190	60WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3638	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6THALIA 1
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3639	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6LYNHA 1
314131	60ARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3639	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6LYNHA 1
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3639	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6LYNHA 1
314190	60WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3639	D: 6ARNOLDS-6COMORN 1 + 6LYNHAVN-6LYNHA 1
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3640	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
314131	60ARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3640	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3640	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
314190	60WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3640	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3641	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
314131	60ARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3641	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3641	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
314190	60WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3641	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3642	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
314131	60ARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3642	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3642	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
314190	60WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3642	D: 6ARNOLDS-6COMORN 1 + 3MCCLAUGH-3REEVES 1
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3643	D: 6ARNOLDS-6COMORN 1 + 6VA BCH -3VA BCH 1
314131	60ARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3643	D: 6ARNOLDS-6COMORN 1 + 6VA BCH -3VA BCH 1
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3643	D: 6ARNOLDS-6COMORN 1 + 6VA BCH -3VA BCH 1
314190	60WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3643	D: 6ARNOLDS-6COMORN 1 + 6VA BCH -3VA BCH 1
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3644	D: 6ARNOLDS-6COMORN 1 + 6VA BCH -3VA BCH 2
314131	60ARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3644	D: 6ARNOLDS-6COMORN 1 + 6VA BCH -3VA BCH 2
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3644	D: 6ARNOLDS-6COMORN 1 + 6VA BCH -3VA BCH 2
314190	60WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3644	D: 6ARNOLDS-6COMORN 1 + 6VA BCH -3VA BCH 2
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3645	D: 6ARNOLDS-6COMORN 1 + 3PENDUTN-3VA BCH 1
314131	60ARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3645	D: 6ARNOLDS-6COMORN 1 + 3PENDUTN-3VA BCH 1
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3645	D: 6ARNOLDS-6COMORN 1 + 3PENDUTN-3VA BCH 1
314190	60WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3645	D: 6ARNOLDS-6COMORN 1 + 3PENDUTN-3VA BCH 1
313810	60AHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3646	D: 6ARNOLDS-6COMORN 1 + 3REEVES -3REEVES 1

Bus #	Bus Name	KV	A-area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRaise	Viol	Ncon	Contingency Description
314131	GARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3646	D: GARNOLDS-ECOMORN 1 +3REEVES -3REEVE 11
314139	GOARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3646	D: GARNOLDS-ECOMORN 1 +3REEVES -3REEVE 11
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3646	D: GARNOLDS-ECOMORN 1 +3REEVES -3REEVE 11
313810	DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3647	D: GARNOLDS-ECOMORN 1 +3REEVES -6REEVES 1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3647	D: GARNOLDS-ECOMORN 1 +3REEVES -6REEVES 1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3647	D: GARNOLDS-ECOMORN 1 +3REEVES -6REEVES 1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3647	D: GARNOLDS-ECOMORN 1 +3REEVES -6REEVES 1
313810	DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3648	D: GARNOLDS-ECOMORN 1 +3REEVES -6REEVES 2
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3648	D: GARNOLDS-ECOMORN 1 +3REEVES -6REEVES 2
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3648	D: GARNOLDS-ECOMORN 1 +3REEVES -6REEVES 2
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3649	D: GARNOLDS-ECOMORN 1 +6REEVES -6RURITANI
313810	DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3649	D: GARNOLDS-ECOMORN 1 +6REEVES -6RURITANI
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3649	D: GARNOLDS-ECOMORN 1 +6REEVES -6RURITANI
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3649	D: GARNOLDS-ECOMORN 1 +6REEVES -6RURITANI
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3650	D: GARNOLDS-ECOMORN 1 +6REEVES -6REEVE 11
313810	DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3650	D: GARNOLDS-ECOMORN 1 +6REEVES -6REEVE 11
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3650	D: GARNOLDS-ECOMORN 1 +6REEVES -6REEVE 11
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3650	D: GARNOLDS-ECOMORN 1 +6REEVES -6REEVE 11
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3650	D: GARNOLDS-ECOMORN 1 +6REEVES -6REEVE 11
313810	DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3651	D: GARNOLDS-ECOMORN 1 +6RURITAN-6SNORFLK1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3651	D: GARNOLDS-ECOMORN 1 +6RURITAN-6SNORFLK1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3651	D: GARNOLDS-ECOMORN 1 +6RURITAN-6SNORFLK1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3651	D: GARNOLDS-ECOMORN 1 +6RURITAN-6SNORFLK1
313810	DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3652	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-3TAUSSIG1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3652	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-3TAUSSIG1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3652	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-3TAUSSIG1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3652	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-3TAUSSIG1
313810	DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3653	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-3THOLE S1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3653	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-3THOLE S1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3653	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-3THOLE S1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3653	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-3THOLE S1
313810	DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3654	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-6SEWLSPT1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3654	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-6SEWLSPT1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3654	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-6SEWLSPT1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3654	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-6SEWLSPT1
313810	DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3655	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-6SEWLSPT2
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3655	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-6SEWLSPT2
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3655	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-6SEWLSPT2
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3655	D: GARNOLDS-ECOMORN 1 +3SEWLSPT-6SEWLSPT2
313810	DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3656	D: GARNOLDS-ECOMORN 1 +6SEWLSPT-6NAVYS 1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3656	D: GARNOLDS-ECOMORN 1 +6SEWLSPT-6NAVYS 1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3656	D: GARNOLDS-ECOMORN 1 +6SEWLSPT-6NAVYS 1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3656	D: GARNOLDS-ECOMORN 1 +6SEWLSPT-6NAVYS 1
313810	DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3657	D: GARNOLDS-ECOMORN 1 +6SEWLSPT-6NAVYS1 1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3657	D: GARNOLDS-ECOMORN 1 +6SEWLSPT-6NAVYS1 1
314139	GOARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3657	D: GARNOLDS-ECOMORN 1 +6SEWLSPT-6NAVYS1 1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3657	D: GARNOLDS-ECOMORN 1 +6SEWLSPT-6NAVYS1 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3658	D: GARNOLDS-ECOMORN 1 +6SNORFLK-6THRS2791
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3658	D: GARNOLDS-ECOMORN 1 +6SNORFLK-6THRS2791
314139	GOAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3658	D: GARNOLDS-ECOMORN 1 +6SNORFLK-6THRS2791
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3658	D: GARNOLDS-ECOMORN 1 +6SNORFLK-6THRS2791
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3659	D: GARNOLDS-ECOMORN 1 +6NAVYS -6NAVYN 1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3659	D: GARNOLDS-ECOMORN 1 +6NAVYS -6NAVYN 1
314139	GOAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3659	D: GARNOLDS-ECOMORN 1 +6NAVYS -6NAVYN 1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3659	D: GARNOLDS-ECOMORN 1 +6NAVYS -6NAVYN 1
313810	6DAHLGREN	230.0	345	354	0.8962	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3660	D: GARNOLDS-ECOMORN 1 +6NAVYS1 -6NAVYN1 1
314131	GARNOLDS	230.0	345	354	0.8957	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3660	D: GARNOLDS-ECOMORN 1 +6NAVYS1 -6NAVYN1 1
314139	GOAKGROV	230.0	345	354	0.9043	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3660	D: GARNOLDS-ECOMORN 1 +6NAVYS1 -6NAVYN1 1
314190	WESTMOR	230.0	345	354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3660	D: GARNOLDS-ECOMORN 1 +6NAVYS1 -6NAVYN1 1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3661	D: GARNOLDS-ECOMORN 1 +6STUMPY -6THRS2791
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3661	D: GARNOLDS-ECOMORN 1 +6STUMPY -6THRS2791
314139	GOAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3661	D: GARNOLDS-ECOMORN 1 +6STUMPY -6THRS2791
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3661	D: GARNOLDS-ECOMORN 1 +6STUMPY -6THRS2791
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3662	D: GARNOLDS-ECOMORN 1 +3THOLE S-3THOLE 11
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3662	D: GARNOLDS-ECOMORN 1 +3THOLE S-3THOLE 11
314139	GOAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3662	D: GARNOLDS-ECOMORN 1 +3THOLE S-3THOLE 11
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3662	D: GARNOLDS-ECOMORN 1 +3THOLE S-3THOLE 11
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3663	D: GARNOLDS-ECOMORN 1 +6THRS279-6YADKIN 1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3663	D: GARNOLDS-ECOMORN 1 +6THRS279-6YADKIN 1
314139	GOAKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3663	D: GARNOLDS-ECOMORN 1 +6THRS279-6YADKIN 1
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3663	D: GARNOLDS-ECOMORN 1 +6THRS279-6YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3664	D: GARNOLDS-ECOMORN 1 +3VA BCH -3VA BC 11
314131	GARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3664	D: GARNOLDS-ECOMORN 1 +3VA BCH -3VA BC 11
314139	GOAKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3664	D: GARNOLDS-ECOMORN 1 +3VA BCH -3VA BC 11
314190	WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3664	D: GARNOLDS-ECOMORN 1 +3VA BCH -3VA BC 11
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3665	D: GARNOLDS-ECOMORN 1 +3YADKIN -6YADKIN 1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3665	D: GARNOLDS-ECOMORN 1 +3YADKIN -6YADKIN 1
314139	GOAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3665	D: GARNOLDS-ECOMORN 1 +3YADKIN -6YADKIN 1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3665	D: GARNOLDS-ECOMORN 1 +3YADKIN -6YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3666	D: GARNOLDS-ECOMORN 1 +6YADKIN -6YADK1 11
314131	GARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3666	D: GARNOLDS-ECOMORN 1 +6YADKIN -6YADK1 11
314139	GOAKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3666	D: GARNOLDS-ECOMORN 1 +6YADKIN -6YADK1 11
314190	WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3666	D: GARNOLDS-ECOMORN 1 +6YADKIN -6YADK1 11
313810	6DAHLGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3667	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 1
314131	GARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3667	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 1
314139	GOAKGROV	230.0	345	354	0.9038	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3667	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 1
314190	WESTMOR	230.0	345	354	0.9087	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3667	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 1
313810	6DAHLGREN	230.0	345	354	0.8957	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3668	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 2
314131	GARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3668	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 2
314139	GOAKGROV	230.0	345	354	0.9038	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3668	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 2
314190	WESTMOR	230.0	345	354	0.9087	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3668	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 2
313810	6DAHLGREN	230.0	345	354	0.8963	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3669	D: GARNOLDS-ECOMORN 1 +6YADKIN -6SUFFOLK1
314131	GARNOLDS	230.0	345	354	0.8957	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3669	D: GARNOLDS-ECOMORN 1 +6YADKIN -6SUFFOLK1
314139	GOAKGROV	230.0	345	354	0.9043	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3669	D: GARNOLDS-ECOMORN 1 +6YADKIN -6SUFFOLK1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314190	GWESTMOR	230.0	345	354	0.9092	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3669	D: GARNOLDS-ECOMORN 1 +6YADKIN -6SUFFOLK1
313810	GDAILGREN	230.0	345	354	0.8952	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3670	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6KINGSFO1
314131	GARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3670	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6KINGSFO1
314139	GOANGROV	230.0	345	354	0.9033	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3670	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6KINGSFO1
314190	GWESTMOR	230.0	345	354	0.9082	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3670	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6KINGSFO1
313810	GDAILGREN	230.0	345	354	0.8951	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3671	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6SUNNY 1
314131	GARNOLDS	230.0	345	354	0.8946	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3671	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6SUNNY 1
314139	GOANGROV	230.0	345	354	0.9031	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3671	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6SUNNY 1
314190	GWESTMOR	230.0	345	354	0.9080	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3671	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6SUNNY 1
313810	GDAILGREN	230.0	345	354	0.8956	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3672	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6CHCKT 11
314131	GARNOLDS	230.0	345	354	0.8951	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3672	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6CHCKT 11
314139	GOANGROV	230.0	345	354	0.9017	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3672	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6CHCKT 11
314183	GSANDERS	230.0	345	354	0.9096	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3672	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6CHCKT 11
314190	GWESTMOR	230.0	345	354	0.9066	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3672	D: GARNOLDS-ECOMORN 1 +6CHCKTUK-6CHCKT 11
313810	GDAILGREN	230.0	345	354	0.8963	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3673	D: GARNOLDS-ECOMORN 1 +6CRITTDN-6SUNNY 1
314131	GARNOLDS	230.0	345	354	0.8957	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3673	D: GARNOLDS-ECOMORN 1 +6CRITTDN-6SUNNY 1
314139	GOANGROV	230.0	345	354	0.9043	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3673	D: GARNOLDS-ECOMORN 1 +6CRITTDN-6SUNNY 1
314190	GWESTMOR	230.0	345	354	0.9092	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3673	D: GARNOLDS-ECOMORN 1 +6CRITTDN-6SUNNY 1
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3674	D: GARNOLDS-ECOMORN 1 +3FRNKLN -3UNCAMP 1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3674	D: GARNOLDS-ECOMORN 1 +3FRNKLN -3UNCAMP 1
314139	GOANGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3674	D: GARNOLDS-ECOMORN 1 +3FRNKLN -3UNCAMP 1
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3674	D: GARNOLDS-ECOMORN 1 +3FRNKLN -3UNCAMP 1
313810	GDAILGREN	230.0	345	354	0.8958	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3675	D: GARNOLDS-ECOMORN 1 +3FRNKLN -3WATKINS1
314131	GARNOLDS	230.0	345	354	0.8953	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3675	D: GARNOLDS-ECOMORN 1 +3FRNKLN -3WATKINS1
314139	GOANGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3675	D: GARNOLDS-ECOMORN 1 +3FRNKLN -3WATKINS1
314190	GWESTMOR	230.0	345	354	0.9086	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3675	D: GARNOLDS-ECOMORN 1 +3FRNKLN -3WATKINS1
313810	GDAILGREN	230.0	345	354	0.8942	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3676	D: GARNOLDS-ECOMORN 1 +6KINGSFO-6SUFFOLK1
314131	GARNOLDS	230.0	345	354	0.8937	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3676	D: GARNOLDS-ECOMORN 1 +6KINGSFO-6SUFFOLK1
314139	GOANGROV	230.0	345	354	0.9023	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3676	D: GARNOLDS-ECOMORN 1 +6KINGSFO-6SUFFOLK1
314190	GWESTMOR	230.0	345	354	0.9072	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3676	D: GARNOLDS-ECOMORN 1 +6KINGSFO-6SUFFOLK1
313810	GDAILGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3677	D: GARNOLDS-ECOMORN 1 +3HANDSOM-3S HAMPT1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3677	D: GARNOLDS-ECOMORN 1 +3HANDSOM-3S HAMPT1
314139	GOANGROV	230.0	345	354	0.9043	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3677	D: GARNOLDS-ECOMORN 1 +3HANDSOM-3S HAMPT1
314190	GWESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3677	D: GARNOLDS-ECOMORN 1 +3HANDSOM-3S HAMPT1
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3678	D: GARNOLDS-ECOMORN 1 +3HOLLAND-3SUFFOLK1
314131	GARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3678	D: GARNOLDS-ECOMORN 1 +3HOLLAND-3SUFFOLK1
314139	GOANGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3678	D: GARNOLDS-ECOMORN 1 +3HOLLAND-3SUFFOLK1
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3678	D: GARNOLDS-ECOMORN 1 +3HOLLAND-3SUFFOLK1
313810	GDAILGREN	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3679	D: GARNOLDS-ECOMORN 1 +3HOLLAND-3UNCAMP 1
314131	GARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD*	3679	D: GARNOLDS-ECOMORN 1 +3HOLLAND-3UNCAMP 1
314139	GOANGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3679	D: GARNOLDS-ECOMORN 1 +3HOLLAND-3UNCAMP 1
314190	GWESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3679	D: GARNOLDS-ECOMORN 1 +3HOLLAND-3UNCAMP 1
313810	GDAILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3680	D: GARNOLDS-ECOMORN 1 +31VOR106-30AKR1231
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3680	D: GARNOLDS-ECOMORN 1 +31VOR106-30AKR1231
314139	GOANGROV	230.0	345	354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3680	D: GARNOLDS-ECOMORN 1 +31VOR106-30AKR1231
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3680	D: GARNOLDS-ECOMORN 1 +31VOR106-30AKR1231
313810	GDAILGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3681	D: GARNOLDS-ECOMORN 1 +3MYRTLE -3WINDSOR1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Neon	Contingency Description
314131	GARNOLDS	230.0		354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3681 D: GARNOLDS-6COMORN 1 +3MYRTLE -3WINDSOR1	
314139	GOARGROV	230.0		354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3681 D: GARNOLDS-6COMORN 1 +3MYRTLE -3WINDSOR1	
314190	GWESTMOR	230.0		354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3681 D: GARNOLDS-6COMORN 1 +3MYRTLE -3WINDSOR1	
313810	GDAILGREN	230.0		354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3682 D: GARNOLDS-6COMORN 1 +3OAKRI23-3SUFFCAP1	
314131	GARNOLDS	230.0		354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3682 D: GARNOLDS-6COMORN 1 +3OAKRI23-3SUFFCAP1	
314139	GOARGROV	230.0		354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3682 D: GARNOLDS-6COMORN 1 +3OAKRI23-3SUFFCAP1	
314190	GWESTMOR	230.0		354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3682 D: GARNOLDS-6COMORN 1 +3OAKRI23-3SUFFCAP1	
313810	GDAILGREN	230.0		354	0.8965	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3683 D: GARNOLDS-6COMORN 1 +6SMITFLD-6SURREY 1	
314131	GARNOLDS	230.0		354	0.8959	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3683 D: GARNOLDS-6COMORN 1 +6SMITFLD-6SURREY 1	
314139	GOARGROV	230.0		354	0.9045	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3683 D: GARNOLDS-6COMORN 1 +6SMITFLD-6SURREY 1	
314190	GWESTMOR	230.0		354	0.9094	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3683 D: GARNOLDS-6COMORN 1 +6SMITFLD-6SURREY 1	
313810	GDAILGREN	230.0		354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3684 D: GARNOLDS-6COMORN 1 +3S HAMPT-3WATKINS1	
314131	GARNOLDS	230.0		354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3684 D: GARNOLDS-6COMORN 1 +3S HAMPT-3WATKINS1	
314139	GOARGROV	230.0		354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3684 D: GARNOLDS-6COMORN 1 +3S HAMPT-3WATKINS1	
314190	GWESTMOR	230.0		354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3684 D: GARNOLDS-6COMORN 1 +3S HAMPT-3WATKINS1	
313810	GDAILGREN	230.0		354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3684 D: GARNOLDS-6COMORN 1 +3S HAMPT-3WATKINS1	
314131	GARNOLDS	230.0		354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3685 D: GARNOLDS-6COMORN 1 +3S HAMPT-1SHAMPT11	
314139	GOARGROV	230.0		354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3685 D: GARNOLDS-6COMORN 1 +3S HAMPT-1SHAMPT11	
314190	GWESTMOR	230.0		354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3685 D: GARNOLDS-6COMORN 1 +3S HAMPT-1SHAMPT11	
313810	GDAILGREN	230.0		354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3686 D: GARNOLDS-6COMORN 1 +3SUFFCAP-3SUFFOLK21	
314131	GARNOLDS	230.0		354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3686 D: GARNOLDS-6COMORN 1 +3SUFFCAP-3SUFFOLK21	
314139	GOARGROV	230.0		354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3686 D: GARNOLDS-6COMORN 1 +3SUFFCAP-3SUFFOLK21	
314190	GWESTMOR	230.0		354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3686 D: GARNOLDS-6COMORN 1 +3SUFFCAP-3SUFFOLK21	
313810	GDAILGREN	230.0		354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3687 D: GARNOLDS-6COMORN 1 +3SUFFCAP-3SUFFOLK 11	
314131	GARNOLDS	230.0		354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3687 D: GARNOLDS-6COMORN 1 +3SUFFCAP-3SUFFOLK 11	
314139	GOARGROV	230.0		354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3687 D: GARNOLDS-6COMORN 1 +3SUFFCAP-3SUFFOLK 11	
314190	GWESTMOR	230.0		354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3687 D: GARNOLDS-6COMORN 1 +3SUFFCAP-3SUFFOLK 11	
313810	GDAILGREN	230.0		354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3688 D: GARNOLDS-6COMORN 1 +3SUFFOLK-3SUFFOLK 11	
314131	GARNOLDS	230.0		354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3688 D: GARNOLDS-6COMORN 1 +3SUFFOLK-3SUFFOLK 11	
314139	GOARGROV	230.0		354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3688 D: GARNOLDS-6COMORN 1 +3SUFFOLK-3SUFFOLK 11	
314190	GWESTMOR	230.0		354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3688 D: GARNOLDS-6COMORN 1 +3SUFFOLK-3SUFFOLK 11	
313810	GDAILGREN	230.0		354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3689 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK1	
314131	GARNOLDS	230.0		354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3689 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK1	
314139	GOARGROV	230.0		354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3689 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK1	
314190	GWESTMOR	230.0		354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3689 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK1	
313810	GDAILGREN	230.0		354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3690 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK2	
314131	GARNOLDS	230.0		354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3690 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK2	
314139	GOARGROV	230.0		354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3690 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK2	
314190	GWESTMOR	230.0		354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3690 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK2	
313810	GDAILGREN	230.0		354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3691 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK3	
314131	GARNOLDS	230.0		354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3691 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK3	
314139	GOARGROV	230.0		354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3691 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK3	
314190	GWESTMOR	230.0		354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3691 D: GARNOLDS-6COMORN 1 +3SUFFOLK-6SUFFOLK3	
313810	GDAILGREN	230.0		354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3692 D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULFOLK1	
314131	GARNOLDS	230.0		354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3692 D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULFOLK1	
314139	GOARGROV	230.0		354	0.9034	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3692 D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULFOLK1	
314190	GWESTMOR	230.0		354	0.9083	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3692 D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULFOLK1	

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	60AHLGREN	230.0	345	354	0.8953	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3693	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314131	GARNOLDS	230.0	345	354	0.8948	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3693	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314139	60AKGROV	230.0	345	354	0.9034	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3693	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314190	60WESTMOR	230.0	345	354	0.9083	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3693	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
313810	60AHLGREN	230.0	345	354	0.8739	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3694	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314131	GARNOLDS	230.0	345	354	0.8734	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3694	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314139	60AKGROV	230.0	345	354	0.8823	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3694	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314190	60WESTMOR	230.0	345	354	0.9062	0.9881	0.9300	1.0700	0.9370	1.0376	LD	3694	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314182	60NORNECK	230.0	345	354	0.8932	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3694	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314183	60ANDERS	230.0	345	354	0.8955	0.9863	0.9300	1.0700	0.9356	1.0341	LD	3694	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314190	60WESTMOR	230.0	345	354	0.8874	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3694	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
313810	60AHLGREN	230.0	345	354	0.8952	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3695	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314131	GARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3695	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314139	60AKGROV	230.0	345	354	0.9032	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3695	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314190	60WESTMOR	230.0	345	354	0.9081	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3695	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
313810	60AHLGREN	230.0	345	354	0.8952	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3696	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314131	GARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3696	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314139	60AKGROV	230.0	345	354	0.9032	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3696	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314190	60WESTMOR	230.0	345	354	0.9081	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3696	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
313810	60AHLGREN	230.0	345	354	0.8952	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3697	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314131	GARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3697	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314139	60AKGROV	230.0	345	354	0.9032	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3697	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314190	60WESTMOR	230.0	345	354	0.9081	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3697	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
313810	60AHLGREN	230.0	345	354	0.8952	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3698	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314131	GARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3698	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314139	60AKGROV	230.0	345	354	0.9032	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3698	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314190	60WESTMOR	230.0	345	354	0.9081	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3698	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
313810	60AHLGREN	230.0	345	354	0.8952	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3699	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314131	GARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3699	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314139	60AKGROV	230.0	345	354	0.9032	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3699	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314190	60WESTMOR	230.0	345	354	0.9081	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3699	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
313810	60AHLGREN	230.0	345	354	0.8952	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3700	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314131	GARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3700	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314139	60AKGROV	230.0	345	354	0.9032	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3700	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314190	60WESTMOR	230.0	345	354	0.9081	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3700	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
313810	60AHLGREN	230.0	345	354	0.8952	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3701	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314131	GARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3701	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314139	60AKGROV	230.0	345	354	0.9032	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3701	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314190	60WESTMOR	230.0	345	354	0.9081	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3701	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
313810	60AHLGREN	230.0	345	354	0.8952	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3702	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314131	GARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3702	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314139	60AKGROV	230.0	345	354	0.9032	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3702	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314190	60WESTMOR	230.0	345	354	0.9081	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3702	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
313810	60AHLGREN	230.0	345	354	0.8952	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3703	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2
314131	GARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3703	D: GARNOLDS-6COMORN 1 +6SUFFOLK-8SULPOLK2

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Neon	Contingency Description
314139	60AKGROV	230.0	345	354	0.9037	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3703	D: GARNOLDS-6COMORN 1 + 6GRAVELB-1GRAVEL51
314190	6WESTMOR	230.0	345	354	0.9086	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3703	D: GARNOLDS-6COMORN 1 + 6GRAVELB-1GRAVEL51
313810	6DAHLGREN	230.0	345	354	0.8957	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3704	D: GARNOLDS-6COMORN 1 + 6GRAVELB-1GRAVEL61
314131	6ARNOLDS	230.0	345	354	0.8952	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3704	D: GARNOLDS-6COMORN 1 + 6GRAVELB-1GRAVEL61
314139	60AKGROV	230.0	345	354	0.9037	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3704	D: GARNOLDS-6COMORN 1 + 6GRAVELB-1GRAVEL61
314190	6WESTMOR	230.0	345	354	0.9086	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3704	D: GARNOLDS-6COMORN 1 + 6GRAVELB-1GRAVEL61
313810	6DAHLGREN	230.0	345	354	0.8957	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3705	D: GARNOLDS-6COMORN 1 + 8LOUDO 1-8LOUDOUN1
314131	6ARNOLDS	230.0	345	354	0.8952	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3705	D: GARNOLDS-6COMORN 1 + 8LOUDO 1-8LOUDOUN1
314139	60AKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3705	D: GARNOLDS-6COMORN 1 + 8LOUDO 1-8LOUDOUN1
314190	6WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3705	D: GARNOLDS-6COMORN 1 + 8LOUDO 1-8LOUDOUN1
313810	6DAHLGREN	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3706	D: GARNOLDS-6COMORN 1 + 8MORRS 1-8MORRSV11
314131	6ARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3706	D: GARNOLDS-6COMORN 1 + 8MORRS 1-8MORRSV11
314139	60AKGROV	230.0	345	354	0.9039	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3706	D: GARNOLDS-6COMORN 1 + 8MORRS 1-8MORRSV11
314190	6WESTMOR	230.0	345	354	0.9088	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3706	D: GARNOLDS-6COMORN 1 + 8MORRS 1-8MORRSV11
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3707	D: GARNOLDS-6COMORN 1 + 8MT ST 1-8MT STM 1
314131	6ARNOLDS	230.0	345	354	0.8957	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3707	D: GARNOLDS-6COMORN 1 + 8MT ST 1-8MT STM 1
314139	60AKGROV	230.0	345	354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3707	D: GARNOLDS-6COMORN 1 + 8MT ST 1-8MT STM 1
314190	6WESTMOR	230.0	345	354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3707	D: GARNOLDS-6COMORN 1 + 8MT ST 1-8MT STM 1
313810	6DAHLGREN	230.0	345	354	0.8956	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3708	D: GARNOLDS-6COMORN 1 + 8MT ST 2-8MT STM 1
314131	6ARNOLDS	230.0	345	354	0.8951	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3708	D: GARNOLDS-6COMORN 1 + 8MT ST 2-8MT STM 1
314139	60AKGROV	230.0	345	354	0.9036	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3708	D: GARNOLDS-6COMORN 1 + 8MT ST 2-8MT STM 1
314190	6WESTMOR	230.0	345	354	0.9085	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3708	D: GARNOLDS-6COMORN 1 + 8MT ST 2-8MT STM 1
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3709	D: GARNOLDS-6COMORN 1 + 8BRISTER-8CHANCE 1
314131	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3709	D: GARNOLDS-6COMORN 1 + 8BRISTER-8CHANCE 1
314139	60AKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3709	D: GARNOLDS-6COMORN 1 + 8BRISTER-8CHANCE 1
314190	6WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3709	D: GARNOLDS-6COMORN 1 + 8BRISTER-8CHANCE 1
313810	6DAHLGREN	230.0	345	354	0.8956	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3710	D: GARNOLDS-6COMORN 1 + 8BRISTER-8MORRSV11
314131	6ARNOLDS	230.0	345	354	0.8951	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3710	D: GARNOLDS-6COMORN 1 + 8BRISTER-8MORRSV11
314139	60AKGROV	230.0	345	354	0.9036	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3710	D: GARNOLDS-6COMORN 1 + 8BRISTER-8MORRSV11
314190	6WESTMOR	230.0	345	354	0.9085	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3710	D: GARNOLDS-6COMORN 1 + 8BRISTER-8MORRSV11
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3711	D: GARNOLDS-6COMORN 1 + 8BRISTER-8OX 1
314131	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3711	D: GARNOLDS-6COMORN 1 + 8BRISTER-8OX 1
314139	60AKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3711	D: GARNOLDS-6COMORN 1 + 8BRISTER-8OX 1
314190	6WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3711	D: GARNOLDS-6COMORN 1 + 8BRISTER-8OX 1
313810	6DAHLGREN	230.0	345	354	0.8956	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3712	D: GARNOLDS-6COMORN 1 + 8BATH CO-8LEXNGTNI
314131	6ARNOLDS	230.0	345	354	0.8951	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3712	D: GARNOLDS-6COMORN 1 + 8BATH CO-8LEXNGTNI
314139	60AKGROV	230.0	345	354	0.9036	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3712	D: GARNOLDS-6COMORN 1 + 8BATH CO-8LEXNGTNI
314190	6WESTMOR	230.0	345	354	0.9085	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3712	D: GARNOLDS-6COMORN 1 + 8BATH CO-8LEXNGTNI
313810	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3713	D: GARNOLDS-6COMORN 1 + 8BATH CO-8VALLEY 1
314131	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3713	D: GARNOLDS-6COMORN 1 + 8BATH CO-8VALLEY 1
314139	60AKGROV	230.0	345	354	0.9034	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3713	D: GARNOLDS-6COMORN 1 + 8BATH CO-8VALLEY 1
314190	6WESTMOR	230.0	345	354	0.9083	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3713	D: GARNOLDS-6COMORN 1 + 8BATH CO-8VALLEY 1
313810	6DAHLGREN	230.0	345	354	0.8972	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3714	D: GARNOLDS-6COMORN 1 + B50510 BATH 3W1 1
314131	6ARNOLDS	230.0	345	354	0.8967	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3714	D: GARNOLDS-6COMORN 1 + B50510 BATH 3W1 1
314139	60AKGROV	230.0	345	354	0.9052	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3714	D: GARNOLDS-6COMORN 1 + B50510 BATH 3W1 1
314190	6WESTMOR	230.0	345	354	0.9052	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3715	D: GARNOLDS-6COMORN 1 + B50511 BATH 3W3 1
313810	6DAHLGREN	230.0	345	354	0.8972	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3715	D: GARNOLDS-6COMORN 1 + B50511 BATH 3W3 1
314131	6ARNOLDS	230.0	345	354	0.8967	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3715	D: GARNOLDS-6COMORN 1 + B50511 BATH 3W3 1

Bus #	Bus Name	KV	A-area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314139	GOARGROV	230.0	345	354	0.9052	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3715	D: BARNOLDS-6COMORN 1 + BS0511 BATH 3WS 1
313810	6DAHLGREN	230.0	345	354	0.8972	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3716	D: BARNOLDS-6COMORN 1 + BS0512 BATH 3WS 1
314131	BARNOLDS	230.0	345	354	0.8957	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3716	D: BARNOLDS-6COMORN 1 + BS0512 BATH 3WS 1
314139	GOARGROV	230.0	345	354	0.9052	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3716	D: BARNOLDS-6COMORN 1 + BS0512 BATH 3WS 1
313810	6DAHLGREN	230.0	345	354	0.8935	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3717	D: BARNOLDS-6COMORN 1 + BICARSON -8CLOVER 1
314131	BARNOLDS	230.0	345	354	0.8930	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3717	D: BARNOLDS-6COMORN 1 + BICARSON -8CLOVER 1
314139	GOARGROV	230.0	345	354	0.9016	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3717	D: BARNOLDS-6COMORN 1 + BICARSON -8CLOVER 1
314183	6SANDERS	230.0	345	354	0.8954	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3718	D: BARNOLDS-6COMORN 1 + BICARSON -8MDLTHANI
314190	WESTMOR	230.0	345	354	0.8954	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3718	D: BARNOLDS-6COMORN 1 + BICARSON -8MDLTHANI
314131	BARNOLDS	230.0	345	354	0.8954	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3718	D: BARNOLDS-6COMORN 1 + BICARSON -8MDLTHANI
314139	GOARGROV	230.0	345	354	0.9054	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3718	D: BARNOLDS-6COMORN 1 + BICARSON -8MDLTHANI
313810	6DAHLGREN	230.0	345	354	0.8963	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3719	D: BARNOLDS-6COMORN 1 + BICARSON -8FIVEFRKI
314131	BARNOLDS	230.0	345	354	0.8940	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3719	D: BARNOLDS-6COMORN 1 + BICARSON -8FIVEFRKI
314139	GOARGROV	230.0	345	354	0.9026	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3719	D: BARNOLDS-6COMORN 1 + BICARSON -8FIVEFRKI
314190	WESTMOR	230.0	345	354	0.9075	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3719	D: BARNOLDS-6COMORN 1 + BICARSON -8FIVEFRKI
313810	6DAHLGREN	230.0	345	354	0.8912	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3720	D: BARNOLDS-6COMORN 1 + BICARSON -8SULFOLKI
314131	BARNOLDS	230.0	345	354	0.8907	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3720	D: BARNOLDS-6COMORN 1 + BICARSON -8SULFOLKI
314139	GOARGROV	230.0	345	354	0.8993	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3720	D: BARNOLDS-6COMORN 1 + BICARSON -8SULFOLKI
314182	6MORNECK	230.0	345	354	0.9058	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3720	D: BARNOLDS-6COMORN 1 + BICARSON -8SULFOLKI
314183	6SANDERS	230.0	345	354	0.9078	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3720	D: BARNOLDS-6COMORN 1 + BICARSON -8SULFOLKI
314190	WESTMOR	230.0	345	354	0.9042	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3720	D: BARNOLDS-6COMORN 1 + BICARSON -8SULFOLKI
313810	6DAHLGREN	230.0	345	354	0.8944	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3721	D: BARNOLDS-6COMORN 1 + BICARSON -8BELMONT 1
314131	BARNOLDS	230.0	345	354	0.8939	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3721	D: BARNOLDS-6COMORN 1 + BICARSON -8BELMONT 1
314139	GOARGROV	230.0	345	354	0.9024	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3721	D: BARNOLDS-6COMORN 1 + BICARSON -8BELMONT 1
314190	WESTMOR	230.0	345	354	0.9073	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3721	D: BARNOLDS-6COMORN 1 + BICARSON -8BELMONT 1
313810	6DAHLGREN	230.0	345	354	0.8946	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3722	D: BARNOLDS-6COMORN 1 + BICARSON -8SURREY 1
314131	BARNOLDS	230.0	345	354	0.8921	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3722	D: BARNOLDS-6COMORN 1 + BICARSON -8SURREY 1
314139	GOARGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3722	D: BARNOLDS-6COMORN 1 + BICARSON -8SURREY 1
314182	6MORNECK	230.0	345	354	0.9083	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3722	D: BARNOLDS-6COMORN 1 + BICARSON -8SURREY 1
314183	6SANDERS	230.0	345	354	0.9057	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3722	D: BARNOLDS-6COMORN 1 + BICARSON -8SURREY 1
314190	WESTMOR	230.0	345	354	0.9027	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3722	D: BARNOLDS-6COMORN 1 + BICARSON -8SURREY 1
313810	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3723	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
314131	BARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3723	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
314139	GOARGROV	230.0	345	354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3723	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3723	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
313810	6DAHLGREN	230.0	345	354	0.8962	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3724	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
314131	BARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3724	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
314139	GOARGROV	230.0	345	354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3724	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
314190	WESTMOR	230.0	345	354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3724	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
313810	6DAHLGREN	230.0	345	354	0.8962	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3725	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
314131	BARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3725	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
314139	GOARGROV	230.0	345	354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3725	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
314190	WESTMOR	230.0	345	354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3725	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
313810	6DAHLGREN	230.0	345	354	0.8956	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3726	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI
314131	BARNOLDS	230.0	345	354	0.8979	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3726	D: BARNOLDS-6COMORN 1 + BICARSON -8BLDOUNI

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314139	60AKGROV	230.0	345	354	0.9065	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3726	D: GARNOLDS-ECOMORN 1 +8DOOMS -8CUNNING1
313810	60AHLGREN	230.0	345	354	0.8965	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3727	D: GARNOLDS-ECOMORN 1 +8DOOMS -8LEXNGTH1
314131	GARNOLDS	230.0	345	354	0.8960	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3727	D: GARNOLDS-ECOMORN 1 +8DOOMS -8LEXNGTH1
314139	60AKGROV	230.0	345	354	0.8965	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3727	D: GARNOLDS-ECOMORN 1 +8DOOMS -8LEXNGTH1
314190	60WESTMOR	230.0	345	354	0.9024	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3727	D: GARNOLDS-ECOMORN 1 +8DOOMS -8LEXNGTH1
313810	60AHLGREN	230.0	345	354	0.8965	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3728	D: GARNOLDS-ECOMORN 1 +8DOOMS -8VALLEY 1
314131	GARNOLDS	230.0	345	354	0.8959	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3728	D: GARNOLDS-ECOMORN 1 +8DOOMS -8VALLEY 1
314139	60AKGROV	230.0	345	354	0.8965	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3728	D: GARNOLDS-ECOMORN 1 +8DOOMS -8VALLEY 1
314190	60WESTMOR	230.0	345	354	0.9024	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3728	D: GARNOLDS-ECOMORN 1 +8DOOMS -8VALLEY 1
313810	60AHLGREN	230.0	345	354	0.8979	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3729	D: GARNOLDS-ECOMORN 1 +8BELMONT -8CUNNING1
314131	GARNOLDS	230.0	345	354	0.8973	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3729	D: GARNOLDS-ECOMORN 1 +8BELMONT -8CUNNING1
314139	60AKGROV	230.0	345	354	0.9059	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3729	D: GARNOLDS-ECOMORN 1 +8BELMONT -8CUNNING1
313810	60AHLGREN	230.0	345	354	0.8932	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3730	D: GARNOLDS-ECOMORN 1 +8BELMONT -8LDYSMT11
314131	GARNOLDS	230.0	345	354	0.8927	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3730	D: GARNOLDS-ECOMORN 1 +8BELMONT -8LDYSMT11
314139	60AKGROV	230.0	345	354	0.9023	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3730	D: GARNOLDS-ECOMORN 1 +8BELMONT -8LDYSMT11
314183	60ANDERS	230.0	345	354	0.9022	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3730	D: GARNOLDS-ECOMORN 1 +8BELMONT -8LDYSMT11
314190	60WESTMOR	230.0	345	354	0.9062	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3730	D: GARNOLDS-ECOMORN 1 +8BELMONT -8LDYSMT11
313810	60AHLGREN	230.0	345	354	0.8947	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3731	D: GARNOLDS-ECOMORN 1 +8FENTRES-8YADKIN 1
314131	GARNOLDS	230.0	345	354	0.8942	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3731	D: GARNOLDS-ECOMORN 1 +8FENTRES-8YADKIN 1
314139	60AKGROV	230.0	345	354	0.9028	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3731	D: GARNOLDS-ECOMORN 1 +8FENTRES-8YADKIN 1
314190	60WESTMOR	230.0	345	354	0.9077	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3731	D: GARNOLDS-ECOMORN 1 +8FENTRES-8YADKIN 1
313810	60AHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3732	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3732	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314139	60AKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3732	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314190	60WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3732	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
313810	60AHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3733	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3733	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314139	60AKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3733	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314190	60WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3733	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
313810	60AHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3734	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3734	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314139	60AKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3734	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314190	60WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3734	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
313810	60AHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3735	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3735	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314139	60AKGROV	230.0	345	354	0.9042	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3735	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
314190	60WESTMOR	230.0	345	354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3735	D: GARNOLDS-ECOMORN 1 +8CUNNING-1CUNINGAI
313810	60AHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3736	D: GARNOLDS-ECOMORN 1 +8LDYSMT11-8NO ANNAI
314131	GARNOLDS	230.0	345	354	0.8944	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3736	D: GARNOLDS-ECOMORN 1 +8LDYSMT11-8NO ANNAI
314139	60AKGROV	230.0	345	354	0.9029	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3736	D: GARNOLDS-ECOMORN 1 +8LDYSMT11-8NO ANNAI
314190	60WESTMOR	230.0	345	354	0.9078	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3736	D: GARNOLDS-ECOMORN 1 +8LDYSMT11-8NO ANNAI
313810	60AHLGREN	230.0	345	354	0.8963	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3737	D: GARNOLDS-ECOMORN 1 +8LDYSMT11-8POSSUM 1
314131	GARNOLDS	230.0	345	354	0.8957	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3737	D: GARNOLDS-ECOMORN 1 +8LDYSMT11-8POSSUM 1
314139	60AKGROV	230.0	345	354	0.9043	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3737	D: GARNOLDS-ECOMORN 1 +8LDYSMT11-8POSSUM 1
314190	60WESTMOR	230.0	345	354	0.9092	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3737	D: GARNOLDS-ECOMORN 1 +8LDYSMT11-8POSSUM 1
313810	60AHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3738	D: GARNOLDS-ECOMORN 1 +8LOUDOUN-8MORRISVIL
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3738	D: GARNOLDS-ECOMORN 1 +8LOUDOUN-8MORRISVIL

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314139	GOANGROV	230.0	345	354	0.9041	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3738	D: GARNOLDS-ECOMORN 1 +8LOUDOUN-8MORRSVL1
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3738	D: GARNOLDS-ECOMORN 1 +8LOUDOUN-8MORRSVL1
313810	GDHILGREN	230.0	345	354	0.8961	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3739	D: GARNOLDS-ECOMORN 1 +8LOUDOUN-8BRAMBLE1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3739	D: GARNOLDS-ECOMORN 1 +8LOUDOUN-8BRAMBLE1
314139	GOANGROV	230.0	345	354	0.9042	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3739	D: GARNOLDS-ECOMORN 1 +8LOUDOUN-8BRAMBLE1
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3739	D: GARNOLDS-ECOMORN 1 +8LOUDOUN-8BRAMBLE1
313810	GDHILGREN	230.0	345	354	0.8961	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3740	D: GARNOLDS-ECOMORN 1 +8MOLTHAN-8NO ANNA1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3740	D: GARNOLDS-ECOMORN 1 +8MOLTHAN-8NO ANNA1
314139	GOANGROV	230.0	345	354	0.9042	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3740	D: GARNOLDS-ECOMORN 1 +8MOLTHAN-8NO ANNA1
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3740	D: GARNOLDS-ECOMORN 1 +8MOLTHAN-8NO ANNA1
313810	GDHILGREN	230.0	345	354	0.8961	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3741	D: GARNOLDS-ECOMORN 1 +8FIVEFRK-8SEPTA 1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3741	D: GARNOLDS-ECOMORN 1 +8FIVEFRK-8SEPTA 1
314139	GOANGROV	230.0	345	354	0.9042	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3741	D: GARNOLDS-ECOMORN 1 +8FIVEFRK-8SEPTA 1
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3741	D: GARNOLDS-ECOMORN 1 +8FIVEFRK-8SEPTA 1
313810	GDHILGREN	230.0	345	354	0.8961	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3742	D: GARNOLDS-ECOMORN 1 +8MORRSVL-8NO ANNA1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3742	D: GARNOLDS-ECOMORN 1 +8MORRSVL-8NO ANNA1
314139	GOANGROV	230.0	345	354	0.9042	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3742	D: GARNOLDS-ECOMORN 1 +8MORRSVL-8NO ANNA1
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3742	D: GARNOLDS-ECOMORN 1 +8MORRSVL-8NO ANNA1
313810	GDHILGREN	230.0	345	354	0.8961	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3743	D: GARNOLDS-ECOMORN 1 +8MORRSVL-8FRONT R1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3743	D: GARNOLDS-ECOMORN 1 +8MORRSVL-8FRONT R1
314139	GOANGROV	230.0	345	354	0.9042	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3743	D: GARNOLDS-ECOMORN 1 +8MORRSVL-8FRONT R1
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3743	D: GARNOLDS-ECOMORN 1 +8MORRSVL-8FRONT R1
313810	GDHILGREN	230.0	345	354	0.8961	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3744	D: GARNOLDS-ECOMORN 1 +8MT STM -8VALLEY 1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3744	D: GARNOLDS-ECOMORN 1 +8MT STM -8VALLEY 1
314139	GOANGROV	230.0	345	354	0.9042	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3744	D: GARNOLDS-ECOMORN 1 +8MT STM -8VALLEY 1
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3744	D: GARNOLDS-ECOMORN 1 +8MT STM -8VALLEY 1
313810	GDHILGREN	230.0	345	354	0.8961	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3745	D: GARNOLDS-ECOMORN 1 +8MT STM -3M STORM1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3745	D: GARNOLDS-ECOMORN 1 +8MT STM -3M STORM1
314139	GOANGROV	230.0	345	354	0.9042	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3745	D: GARNOLDS-ECOMORN 1 +8MT STM -3M STORM1
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3745	D: GARNOLDS-ECOMORN 1 +8MT STM -3M STORM1
313810	GDHILGREN	230.0	345	354	0.8961	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3746	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM11
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3746	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM11
314139	GOANGROV	230.0	345	354	0.9042	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3746	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM11
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3746	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM11
313810	GDHILGREN	230.0	345	354	0.8961	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3747	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM21
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3747	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM21
314139	GOANGROV	230.0	345	354	0.9042	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3747	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM21
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3747	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM21
313810	GDHILGREN	230.0	345	354	0.8961	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3748	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM31
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3748	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM31
314139	GOANGROV	230.0	345	354	0.9042	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3748	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM31
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3748	D: GARNOLDS-ECOMORN 1 +8MT STM -1MT STM31
313810	GDHILGREN	230.0	345	354	0.8961	0.9694	0.9300	1.0700	0.9400	1.0389	LD	3749	D: GARNOLDS-ECOMORN 1 +8NO ANNA-IN ANNA1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3749	D: GARNOLDS-ECOMORN 1 +8NO ANNA-IN ANNA1
314139	GOANGROV	230.0	345	354	0.9042	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3749	D: GARNOLDS-ECOMORN 1 +8NO ANNA-IN ANNA1
314190	GWESTMOR	230.0	345	354	0.9099	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3749	D: GARNOLDS-ECOMORN 1 +8NO ANNA-IN ANNA1

Bus #	Bus Name	KV	A-area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	GDHILGREN	230.0	345	354	0.8952	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3750	D: GARNOLDS-ECOMORN 1 +8NO ANNA-1N ANNA21
314131	GARNOLDS	230.0	345	354	0.8947	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3750	D: GARNOLDS-ECOMORN 1 +8NO ANNA-1N ANNA21
314139	GOAKGROV	230.0	345	354	0.9081	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3750	D: GARNOLDS-ECOMORN 1 +8NO ANNA-1N ANNA21
314190	WESTMOR	230.0	345	354	0.9081	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3750	D: GARNOLDS-ECOMORN 1 +8NO ANNA-1N ANNA21
313810	GDHILGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3751	D: GARNOLDS-ECOMORN 1 +8OX -8FOSSUM 1
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3751	D: GARNOLDS-ECOMORN 1 +8OX -8FOSSUM 1
314139	GOAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3751	D: GARNOLDS-ECOMORN 1 +8OX -8FOSSUM 1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3751	D: GARNOLDS-ECOMORN 1 +8OX -8FOSSUM 1
313810	GDHILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3752	D: GARNOLDS-ECOMORN 1 +3M STORM-3N BRNCH1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3752	D: GARNOLDS-ECOMORN 1 +3M STORM-3N BRNCH1
314139	GOAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3752	D: GARNOLDS-ECOMORN 1 +3M STORM-3N BRNCH1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3752	D: GARNOLDS-ECOMORN 1 +3M STORM-3N BRNCH1
313810	GDHILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3753	D: GARNOLDS-ECOMORN 1 +8SEPTA -8SURY 1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3753	D: GARNOLDS-ECOMORN 1 +8SEPTA -8SURY 1
314139	GOAKGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3753	D: GARNOLDS-ECOMORN 1 +8SEPTA -8SURY 1
314190	WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3753	D: GARNOLDS-ECOMORN 1 +8SEPTA -8SURY 1
313810	GDHILGREN	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3754	D: GARNOLDS-ECOMORN 1 +8SEPTA -8YADKIN 1
314131	GARNOLDS	230.0	345	354	0.8954	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3754	D: GARNOLDS-ECOMORN 1 +8SEPTA -8YADKIN 1
314139	GOAKGROV	230.0	345	354	0.9023	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3754	D: GARNOLDS-ECOMORN 1 +8SEPTA -8YADKIN 1
314190	WESTMOR	230.0	345	354	0.9072	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3754	D: GARNOLDS-ECOMORN 1 +8SEPTA -8YADKIN 1
313810	GDHILGREN	230.0	345	354	0.8908	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3755	D: GARNOLDS-ECOMORN 1 +8SURY -1SURY21
314131	GARNOLDS	230.0	345	354	0.8903	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3755	D: GARNOLDS-ECOMORN 1 +8SURY -1SURY 21
314139	GOAKGROV	230.0	345	354	0.8989	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3755	D: GARNOLDS-ECOMORN 1 +8SURY -1SURY 21
314182	GNORNECK	230.0	345	354	0.9094	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3756	D: GARNOLDS-ECOMORN 1 +8SURY -1SURY 21
314183	SANDERS	230.0	345	354	0.9068	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3756	D: GARNOLDS-ECOMORN 1 +8SURY -1SURY 21
314190	WESTMOR	230.0	345	354	0.9038	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3756	D: GARNOLDS-ECOMORN 1 +8SURY -1SURY 21
313810	GDHILGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3757	D: GARNOLDS-ECOMORN 1 +8PL VIEW-8BRAMELE1
314131	GARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3757	D: GARNOLDS-ECOMORN 1 +8PL VIEW-8BRAMELE1
314139	GOAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3757	D: GARNOLDS-ECOMORN 1 +8PL VIEW-8BRAMELE1
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3757	D: GARNOLDS-ECOMORN 1 +8PL VIEW-8BRAMELE1
313810	GDHILGREN	230.0	345	354	0.8956	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3758	D: GARNOLDS-ECOMORN 1 +8YADKIN -8SULFOLK1
314131	GARNOLDS	230.0	345	354	0.8951	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3758	D: GARNOLDS-ECOMORN 1 +8YADKIN -8SULFOLK1
314139	GOAKGROV	230.0	345	354	0.9036	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3758	D: GARNOLDS-ECOMORN 1 +8YADKIN -8SULFOLK1
314190	WESTMOR	230.0	345	354	0.9085	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3758	D: GARNOLDS-ECOMORN 1 +8YADKIN -8SULFOLK1
313810	GDHILGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3759	D: GARNOLDS-ECOMORN 1 +8FRONT R-1FRNT RYL
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3759	D: GARNOLDS-ECOMORN 1 +8FRONT R-1FRNT RYL
314139	GOAKGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3759	D: GARNOLDS-ECOMORN 1 +8FRONT R-1FRNT RYL
314190	WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3759	D: GARNOLDS-ECOMORN 1 +8FRONT R-1FRNT RYL
313810	GDHILGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3760	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 3
314131	GARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3760	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 3
314139	GOAKGROV	230.0	345	354	0.9036	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3760	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 3
314190	WESTMOR	230.0	345	354	0.9085	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3760	D: GARNOLDS-ECOMORN 1 +6YADKIN -8YADKIN 3

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
313610	6DAHLGREN	230.0	345	354	0.8961	0.9894	0.9300	1.0700	0.9400	1.0389 LD		3761	D: 6ARNOLDS-6COMORN 1 + 3YADKIN -6YADKIN 2
314131	6ARNOLDS	230.0	345	354	0.8956	0.9954	0.9300	1.0700	0.9457	1.0452 LD		3761	D: 6ARNOLDS-6COMORN 1 + 3YADKIN -6YADKIN 2
314139	6OARGROV	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372 LD		3761	D: 6ARNOLDS-6COMORN 1 + 3YADKIN -6YADKIN 2
314190	6WESTMOR	230.0	345	354	0.9090	0.9863	0.9300	1.0700	0.9370	1.0356 LD		3761	D: 6ARNOLDS-6COMORN 1 + 3YADKIN -6YADKIN 2
313610	6DAHLGREN	230.0	345	354	0.8960	0.9894	0.9300	1.0700	0.9400	1.0389 LD		3762	D: 6ARNOLDS-6COMORN 1 + 3CHESAPEK-6CHESAPEK2
314131	6ARNOLDS	230.0	345	354	0.8955	0.9954	0.9300	1.0700	0.9457	1.0452 LD		3762	D: 6ARNOLDS-6COMORN 1 + 3CHESAPEK-6CHESAPEK2
314139	6OARGROV	230.0	345	354	0.9040	0.9878	0.9300	1.0700	0.9384	1.0372 LD		3762	D: 6ARNOLDS-6COMORN 1 + 3CHESAPEK-6CHESAPEK2
314190	6WESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356 LD		3762	D: 6ARNOLDS-6COMORN 1 + 3CHESAPEK-6CHESAPEK2
313610	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389 LD		3763	D: 6BIRCHWD-6COMORN 1 + 6BIRCHWD-1BRCHWD1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452 LD		3763	D: 6BIRCHWD-6COMORN 1 + 6BIRCHWD-1BRCHWD1
314139	6OARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372 LD		3763	D: 6BIRCHWD-6COMORN 1 + 6BIRCHWD-1BRCHWD1
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461 LD		3763	D: 6BIRCHWD-6COMORN 1 + 6BIRCHWD-1BRCHWD1
314182	6NORNECK	230.0	345	354	0.9042	0.9844	0.9300	1.0700	0.9352	1.0337 LD		3763	D: 6BIRCHWD-6COMORN 1 + 6BIRCHWD-1BRCHWD1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0341 LD		3763	D: 6BIRCHWD-6COMORN 1 + 6BIRCHWD-1BRCHWD1
313610	6DAHLGREN	230.0	345	354	0.9077	0.9894	0.9300	1.0700	0.9400	1.0389 LD		3767	D: 6BIRCHWD-6COMORN 1 + 3GARNER -3LANCAST1
314131	6ARNOLDS	230.0	345	354	0.9069	0.9954	0.9300	1.0700	0.9457	1.0452 LD		3767	D: 6BIRCHWD-6COMORN 1 + 3GARNER -3LANCAST1
314139	6OARGROV	230.0	345	354	0.9068	0.9863	0.9300	1.0700	0.9465	1.0461 LD		3767	D: 6BIRCHWD-6COMORN 1 + 3GARNER -3LANCAST1
314175	6COMORN	230.0	345	354	0.8888	0.9894	0.9300	1.0700	0.9400	1.0389 LD		3769	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3SHACKLE1
314182	6NORNECK	230.0	345	354	0.8879	0.9954	0.9300	1.0700	0.9457	1.0452 LD		3769	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3SHACKLE1
314190	6WESTMOR	230.0	345	354	0.8975	0.9878	0.9300	1.0700	0.9384	1.0372 LD		3769	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3SHACKLE1
313610	6DAHLGREN	230.0	345	354	0.8990	0.9894	0.9300	1.0700	0.9465	1.0461 LD		3769	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3SHACKLE1
314131	6ARNOLDS	230.0	345	354	0.9020	0.9844	0.9300	1.0700	0.9352	1.0337 LD		3769	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3SHACKLE1
314139	6OARGROV	230.0	345	354	0.9062	0.9863	0.9300	1.0700	0.9356	1.0341 LD		3769	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3SHACKLE1
314175	6COMORN	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356 LD		3769	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3SHACKLE1
314182	6NORNECK	230.0	345	354	0.8945	0.9894	0.9300	1.0700	0.9400	1.0389 LD		3770	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3WAN 1761
314190	6WESTMOR	230.0	345	354	0.9041	0.9878	0.9300	1.0700	0.9384	1.0372 LD		3770	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3WAN 1761
313610	6DAHLGREN	230.0	345	354	0.8945	0.9894	0.9300	1.0700	0.9465	1.0461 LD		3770	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3WAN 1761
314131	6ARNOLDS	230.0	345	354	0.8945	0.9863	0.9300	1.0700	0.9370	1.0356 LD		3770	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3WAN 1761
314139	6OARGROV	230.0	345	354	0.8994	0.9894	0.9300	1.0700	0.9400	1.0389 LD		3771	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3WHITE S1
314175	6COMORN	230.0	345	354	0.8895	0.9954	0.9300	1.0700	0.9457	1.0452 LD		3771	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3WHITE S1
314182	6NORNECK	230.0	345	354	0.8990	0.9878	0.9300	1.0700	0.9384	1.0372 LD		3771	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3WHITE S1
314190	6WESTMOR	230.0	345	354	0.8894	0.9863	0.9300	1.0700	0.9465	1.0461 LD		3771	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3WHITE S1
313610	6DAHLGREN	230.0	345	354	0.9077	0.9894	0.9300	1.0700	0.9356	1.0341 LD		3771	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3WHITE S1
314131	6ARNOLDS	230.0	345	354	0.9044	0.9863	0.9300	1.0700	0.9370	1.0356 LD		3771	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3WHITE S1
314139	6OARGROV	230.0	345	354	0.8834	0.9894	0.9300	1.0700	0.9400	1.0389 LD		3772	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 11
314175	6COMORN	230.0	345	354	0.8825	0.9954	0.9300	1.0700	0.9457	1.0452 LD		3772	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 11
314182	6NORNECK	230.0	345	354	0.8922	0.9878	0.9300	1.0700	0.9384	1.0372 LD		3772	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 11
314190	6WESTMOR	230.0	345	354	0.8844	0.9863	0.9300	1.0700	0.9465	1.0461 LD		3772	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 11
313610	6DAHLGREN	230.0	345	354	0.9037	0.9894	0.9300	1.0700	0.9352	1.0337 LD		3772	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 11
314131	6ARNOLDS	230.0	345	354	0.9040	0.9863	0.9300	1.0700	0.9356	1.0341 LD		3772	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 11
314139	6OARGROV	230.0	345	354	0.8976	0.9894	0.9300	1.0700	0.9370	1.0356 LD		3772	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 11
314175	6COMORN	230.0	345	354	0.8849	0.9894	0.9300	1.0700	0.9400	1.0389 LD		3773	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 21
314182	6NORNECK	230.0	345	354	0.8840	0.9954	0.9300	1.0700	0.9457	1.0452 LD		3773	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 21
314190	6WESTMOR	230.0	345	354	0.8937	0.9878	0.9300	1.0700	0.9384	1.0372 LD		3773	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 21
313610	6DAHLGREN	230.0	345	354	0.8899	0.9863	0.9300	1.0700	0.9465	1.0461 LD		3773	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 21

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRaise	Viol	Noon	Contingency Description
314182	6NORNECK	230.0	345	354	0.9052	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3773	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 21
314183	6SANDERS	230.0	345	354	0.9024	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3773	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 21
314190	6WESTMOR	230.0	345	354	0.8991	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3773	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-3HARMO 21
313810	6DAHLGREN	230.0	345	354	0.8870	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3774	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-6HARMONY1
314131	6ARNOLDS	230.0	345	354	0.8861	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3774	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-6HARMONY1
314139	6OAKGROV	230.0	345	354	0.8957	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3774	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-6HARMONY1
314175	6COMORN	230.0	345	354	0.8860	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3774	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-6HARMONY1
314182	6NORNECK	230.0	345	354	0.9022	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3774	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-6HARMONY1
314183	6SANDERS	230.0	345	354	0.9044	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3774	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-6HARMONY1
314190	6WESTMOR	230.0	345	354	0.9011	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3774	D: 6BIRCHWD-6COMORN 1 + 3HARMONY-6HARMONY1
313810	6DAHLGREN	230.0	345	354	0.8827	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3775	D: 6BIRCHWD-6COMORN 1 + 6HARMONY-6HARMONY1
314131	6ARNOLDS	230.0	345	354	0.8818	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3775	D: 6BIRCHWD-6COMORN 1 + 6HARMONY-6HARMONY1
314139	6OAKGROV	230.0	345	354	0.8915	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3775	D: 6BIRCHWD-6COMORN 1 + 6HARMONY-6HARMONY1
314175	6COMORN	230.0	345	354	0.8817	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3775	D: 6BIRCHWD-6COMORN 1 + 6HARMONY-6HARMONY1
314182	6NORNECK	230.0	345	354	0.9062	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3775	D: 6BIRCHWD-6COMORN 1 + 6HARMONY-6HARMONY1
314183	6SANDERS	230.0	345	354	0.9034	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3775	D: 6BIRCHWD-6COMORN 1 + 6HARMONY-6HARMONY1
314190	6WESTMOR	230.0	345	354	0.9001	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3775	D: 6BIRCHWD-6COMORN 1 + 6HARMONY-6HARMONY1
313810	6DAHLGREN	230.0	345	354	0.8604	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3776	D: 6BIRCHWD-6COMORN 1 + 3HAYES89-6HAYES 1
314131	6ARNOLDS	230.0	345	354	0.8859	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3776	D: 6BIRCHWD-6COMORN 1 + 3HAYES89-6HAYES 1
314139	6OAKGROV	230.0	345	354	0.8947	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3776	D: 6BIRCHWD-6COMORN 1 + 3HAYES89-6HAYES 1
314175	6COMORN	230.0	345	354	0.8850	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3776	D: 6BIRCHWD-6COMORN 1 + 3HAYES89-6HAYES 1
314182	6NORNECK	230.0	345	354	0.9062	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3776	D: 6BIRCHWD-6COMORN 1 + 3HAYES89-6HAYES 1
314183	6SANDERS	230.0	345	354	0.9034	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3776	D: 6BIRCHWD-6COMORN 1 + 3HAYES89-6HAYES 1
314190	6WESTMOR	230.0	345	354	0.9001	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3776	D: 6BIRCHWD-6COMORN 1 + 3HAYES89-6HAYES 1
313810	6DAHLGREN	230.0	345	354	0.8604	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314131	6ARNOLDS	230.0	345	354	0.8997	0.9863	0.9300	1.0700	0.9369	1.0372	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314139	6OAKGROV	230.0	345	354	0.8594	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314175	6COMORN	230.0	345	354	0.8695	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314182	6NORNECK	230.0	345	354	0.8768	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314183	6SANDERS	230.0	345	354	0.8752	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314190	6WESTMOR	230.0	345	354	0.8785	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
313810	6DAHLGREN	230.0	345	354	0.8798	0.9881	0.9300	1.0700	0.9387	1.0376	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314131	6ARNOLDS	230.0	345	354	0.8776	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314139	6OAKGROV	230.0	345	354	0.8874	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314175	6COMORN	230.0	345	354	0.8775	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314182	6NORNECK	230.0	345	354	0.9071	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314183	6SANDERS	230.0	345	354	0.8991	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
314190	6WESTMOR	230.0	345	354	0.8963	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3777	D: 6BIRCHWD-6COMORN 1 + 3LANCAST-3LANCA 11
313810	6DAHLGREN	230.0	345	354	0.8929	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3778	D: 6BIRCHWD-6COMORN 1 + 6HAYES -6YORKTWN1
314131	6ARNOLDS	230.0	345	354	0.8806	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3778	D: 6BIRCHWD-6COMORN 1 + 6HAYES -6YORKTWN1
314139	6OAKGROV	230.0	345	354	0.8767	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3778	D: 6BIRCHWD-6COMORN 1 + 6HAYES -6YORKTWN1
314175	6COMORN	230.0	345	354	0.8775	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3778	D: 6BIRCHWD-6COMORN 1 + 6HAYES -6YORKTWN1
314182	6NORNECK	230.0	345	354	0.9071	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3778	D: 6BIRCHWD-6COMORN 1 + 6HAYES -6YORKTWN1
314183	6SANDERS	230.0	345	354	0.8991	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3778	D: 6BIRCHWD-6COMORN 1 + 6HAYES -6YORKTWN1
314190	6WESTMOR	230.0	345	354	0.8963	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3778	D: 6BIRCHWD-6COMORN 1 + 6HAYES -6YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.8806	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3779	D: 6BIRCHWD-6COMORN 1 + 3NORNECK-6NORNECK1
314131	6ARNOLDS	230.0	345	354	0.8767	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3779	D: 6BIRCHWD-6COMORN 1 + 3NORNECK-6NORNECK1
314139	6OAKGROV	230.0	345	354	0.8894	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3779	D: 6BIRCHWD-6COMORN 1 + 3NORNECK-6NORNECK1
314175	6COMORN	230.0	345	354	0.8796	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3779	D: 6BIRCHWD-6COMORN 1 + 3NORNECK-6NORNECK1
314182	6NORNECK	230.0	345	354	0.9011	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3779	D: 6BIRCHWD-6COMORN 1 + 3NORNECK-6NORNECK1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Neon	Contingency Description
314183	6SANDERS	230.0	345	354	0.8993	0.9648	0.9300	1.0700	0.9356	1.0341	LD	3779	D:6BIRCHWD-6COMORN 1 +3NORNECK-6NORNECK1
314190	6WESTMOR	230.0	345	354	0.8949	0.9663	0.9300	1.0700	0.9370	1.0356	LD	3779	D:6BIRCHWD-6COMORN 1 +3NORNECK-6NORNECK1
314810	6DAHLGREN	230.0	345	354	0.8819	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3780	D:6BIRCHWD-6COMORN 1 +3NORNECK-6NORNECK2
314131	6ARNOLDS	230.0	345	354	0.8919	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3780	D:6BIRCHWD-6COMORN 1 +3NORNECK-6NORNECK2
314139	6OAKGROV	230.0	345	354	0.8907	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3780	D:6BIRCHWD-6COMORN 1 +3NORNECK-6NORNECK2
314175	6COMORN	230.0	345	354	0.8810	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3780	D:6BIRCHWD-6COMORN 1 +3NORNECK-6NORNECK2
314182	6NORNECK	230.0	345	354	0.9024	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3780	D:6BIRCHWD-6COMORN 1 +3NORNECK-6NORNECK2
314183	6SANDERS	230.0	345	354	0.8996	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3780	D:6BIRCHWD-6COMORN 1 +3NORNECK-6NORNECK2
314190	6WESTMOR	230.0	345	354	0.8922	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3780	D:6BIRCHWD-6COMORN 1 +3NORNECK-6NORNECK2
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3783	D:6BIRCHWD-6COMORN 1 +3SHACKLE-3WEST PT1
314131	6ARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3783	D:6BIRCHWD-6COMORN 1 +3SHACKLE-3WEST PT1
314139	6OAKGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3783	D:6BIRCHWD-6COMORN 1 +3SHACKLE-3WEST PT1
314175	6COMORN	230.0	345	354	0.8979	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3783	D:6BIRCHWD-6COMORN 1 +3SHACKLE-3WEST PT1
314182	6NORNECK	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3783	D:6BIRCHWD-6COMORN 1 +3SHACKLE-3WEST PT1
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3783	D:6BIRCHWD-6COMORN 1 +3SHACKLE-3WEST PT1
314190	6WESTMOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3783	D:6BIRCHWD-6COMORN 1 +3SHACKLE-3WEST PT1
313810	6DAHLGREN	230.0	345	354	0.8879	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3784	D:6BIRCHWD-6COMORN 1 +3WEST PT-3LANEXA 1
314131	6ARNOLDS	230.0	345	354	0.8869	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3784	D:6BIRCHWD-6COMORN 1 +3WEST PT-3LANEXA 1
314139	6OAKGROV	230.0	345	354	0.8966	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3784	D:6BIRCHWD-6COMORN 1 +3WEST PT-3LANEXA 1
314175	6COMORN	230.0	345	354	0.8869	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3784	D:6BIRCHWD-6COMORN 1 +3WEST PT-3LANEXA 1
314182	6NORNECK	230.0	345	354	0.9080	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3784	D:6BIRCHWD-6COMORN 1 +3WEST PT-3LANEXA 1
314183	6SANDERS	230.0	345	354	0.9053	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3784	D:6BIRCHWD-6COMORN 1 +3WEST PT-3LANEXA 1
314190	6WESTMOR	230.0	345	354	0.9020	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3784	D:6BIRCHWD-6COMORN 1 +3WEST PT-3LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.8839	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3785	D:6BIRCHWD-6COMORN 1 +6PAPERMI-6CORRECTW1
314131	6ARNOLDS	230.0	345	354	0.8830	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3785	D:6BIRCHWD-6COMORN 1 +6PAPERMI-6CORRECTW1
314139	6OAKGROV	230.0	345	354	0.8927	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3785	D:6BIRCHWD-6COMORN 1 +6PAPERMI-6CORRECTW1
314175	6COMORN	230.0	345	354	0.8830	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3785	D:6BIRCHWD-6COMORN 1 +6PAPERMI-6CORRECTW1
314182	6NORNECK	230.0	345	354	0.9043	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3785	D:6BIRCHWD-6COMORN 1 +6PAPERMI-6CORRECTW1
314183	6SANDERS	230.0	345	354	0.9015	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3785	D:6BIRCHWD-6COMORN 1 +6PAPERMI-6CORRECTW1
314190	6WESTMOR	230.0	345	354	0.8992	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3785	D:6BIRCHWD-6COMORN 1 +6PAPERMI-6CORRECTW1
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3786	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3OAKRI 11
314131	6ARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3786	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3OAKRI 11
314139	6OAKGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3786	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3OAKRI 11
314175	6COMORN	230.0	345	354	0.8979	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3786	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3OAKRI 11
314182	6NORNECK	230.0	345	354	0.9090	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3786	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3OAKRI 11
314183	6SANDERS	230.0	345	354	0.9065	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3786	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3OAKRI 11
314190	6WESTMOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3786	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3OAKRI 11
313810	6DAHLGREN	230.0	345	354	0.8891	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3787	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3KINGS F1
314131	6ARNOLDS	230.0	345	354	0.8892	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3787	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3KINGS F1
314139	6OAKGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3787	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3KINGS F1
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3787	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3KINGS F1
314182	6NORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3787	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3KINGS F1
314183	6SANDERS	230.0	345	354	0.9065	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3787	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3KINGS F1
314190	6WESTMOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3787	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3KINGS F1
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3788	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3OAKRI12321
314131	6ARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3788	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3OAKRI12321
314139	6OAKGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3788	D:6BIRCHWD-6COMORN 1 +3OAKRIDG-3OAKRI12321

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314175	6COMORN	230.0	345	354	0.8880	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3788	D: 6BIRCHWD-6COMORN 1 +30AKRIDG-30AKR12321
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3785	D: 6BIRCHWD-6COMORN 1 +30AKRIDG-30AKR12321
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3788	D: 6BIRCHWD-6COMORN 1 +30AKRIDG-30AKR12321
314190	6WESTMOR	230.0	345	354	0.9030	0.9843	0.9300	1.0700	0.9370	1.0356	LD	3788	D: 6BIRCHWD-6COMORN 1 +30AKRIDG-30AKR12321
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3789	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3789	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314139	6OAKGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3790	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314175	6COMORN	230.0	345	354	0.8880	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3790	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3790	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9370	1.0356	LD	3790	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314190	6WESTMOR	230.0	345	354	0.9030	0.9843	0.9300	1.0700	0.9400	1.0389	LD	3790	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3791	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9384	1.0372	LD	3791	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314139	6OAKGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9465	1.0461	LD	3791	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314175	6COMORN	230.0	345	354	0.8880	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3792	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3792	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9370	1.0356	LD	3792	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314190	6WESTMOR	230.0	345	354	0.9030	0.9843	0.9300	1.0700	0.9400	1.0389	LD	3792	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3792	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9384	1.0372	LD	3792	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314139	6OAKGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9465	1.0461	LD	3792	D: 6BIRCHWD-6COMORN 1 +IGOSPORT-3GOSPORT1
314175	6COMORN	230.0	345	354	0.8880	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3793	D: 6BIRCHWD-6COMORN 1 +6BIRDMEC-6LANDSTN1
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3793	D: 6BIRCHWD-6COMORN 1 +6BIRDMEC-6LANDSTN1
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9370	1.0356	LD	3793	D: 6BIRCHWD-6COMORN 1 +6BIRDMEC-6LANDSTN1
314190	6WESTMOR	230.0	345	354	0.9030	0.9843	0.9300	1.0700	0.9400	1.0389	LD	3794	D: 6BIRCHWD-6COMORN 1 +6BIRDMEC-6VA BCH 1
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3794	D: 6BIRCHWD-6COMORN 1 +6BIRDMEC-6VA BCH 1
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9384	1.0372	LD	3794	D: 6BIRCHWD-6COMORN 1 +6BIRDMEC-6VA BCH 1
314139	6OAKGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9465	1.0461	LD	3794	D: 6BIRCHWD-6COMORN 1 +6BIRDMEC-6VA BCH 1
314175	6COMORN	230.0	345	354	0.8880	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3794	D: 6BIRCHWD-6COMORN 1 +6BIRDMEC-6VA BCH 1
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3794	D: 6BIRCHWD-6COMORN 1 +6BIRDMEC-6VA BCH 1
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9370	1.0356	LD	3794	D: 6BIRCHWD-6COMORN 1 +6BIRDMEC-6VA BCH 1
314190	6WESTMOR	230.0	345	354	0.9030	0.9843	0.9300	1.0700	0.9400	1.0389	LD	3794	D: 6BIRCHWD-6COMORN 1 +6BIRDMEC-6VA BCH 1
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3795	D: 6BIRCHWD-6COMORN 1 +6PENNTWA-6KINGS MI

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314131	GARNOLDS	230.0	345	354	0.8829	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3795	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6KINGS MI
314139	GOARGROV	230.0	345	354	0.8926	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3795	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6KINGS MI
314175	6COMORN	230.0	345	354	0.8929	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3795	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6KINGS MI
314182	6NORNECK	230.0	345	354	0.9042	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3795	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6KINGS MI
314183	6SANDERS	230.0	345	354	0.9042	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3795	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6KINGS MI
314190	6WESTMOR	230.0	345	354	0.8991	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3795	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6KINGS MI
313810	6DAHLGREN	230.0	345	354	0.8926	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3796	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6WALR2091
314131	GARNOLDS	230.0	345	354	0.8827	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3796	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6WALR2091
314139	GOARGROV	230.0	345	354	0.8924	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3796	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6WALR2091
314175	6COMORN	230.0	345	354	0.8927	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3796	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6WALR2091
314182	6NORNECK	230.0	345	354	0.9040	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3796	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6WALR2091
314183	6SANDERS	230.0	345	354	0.9042	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3796	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6WALR2091
314190	6WESTMOR	230.0	345	354	0.8928	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3796	D: 6BIRCHWD-6COMORN 1 + 6PENNNIMA-6WALR2091
313810	6DAHLGREN	230.0	345	354	0.8830	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3797	D: 6BIRCHWD-6COMORN 1 + 3S27T67A-3BURTN671
314131	GARNOLDS	230.0	345	354	0.8891	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3797	D: 6BIRCHWD-6COMORN 1 + 3S27T67A-3BURTN671
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3797	D: 6BIRCHWD-6COMORN 1 + 3S27T67A-3BURTN671
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3797	D: 6BIRCHWD-6COMORN 1 + 3S27T67A-3BURTN671
314182	6NORNECK	230.0	345	354	0.9021	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3797	D: 6BIRCHWD-6COMORN 1 + 3S27T67A-3BURTN671
314183	6SANDERS	230.0	345	354	0.9064	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3797	D: 6BIRCHWD-6COMORN 1 + 3S27T67A-3BURTN671
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3797	D: 6BIRCHWD-6COMORN 1 + 3S27T67A-3BURTN671
313810	6DAHLGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3798	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3AMPHB671
314131	GARNOLDS	230.0	345	354	0.8883	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3798	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3AMPHB671
314139	GOARGROV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3798	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3AMPHB671
314175	6COMORN	230.0	345	354	0.8882	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3798	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3AMPHB671
314182	6NORNECK	230.0	345	354	0.9033	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3798	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3AMPHB671
314183	6SANDERS	230.0	345	354	0.9066	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3798	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3AMPHB671
314190	6WESTMOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3798	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3AMPHB671
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3799	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3BURTN671
314131	GARNOLDS	230.0	345	354	0.8890	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3799	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3BURTN671
314139	GOARGROV	230.0	345	354	0.8971	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3799	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3BURTN671
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3799	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3BURTN671
314182	6NORNECK	230.0	345	354	0.9031	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3799	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3BURTN671
314183	6SANDERS	230.0	345	354	0.9064	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3799	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3BURTN671
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3799	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3BURTN671
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3800	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3OAKWOOD01
314131	GARNOLDS	230.0	345	354	0.8891	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3800	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3OAKWOOD01
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3800	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3OAKWOOD01
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3800	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3OAKWOOD01
314182	6NORNECK	230.0	345	354	0.9021	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3800	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3OAKWOOD01
314183	6SANDERS	230.0	345	354	0.9064	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3800	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3OAKWOOD01
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3800	D: 6BIRCHWD-6COMORN 1 + 3S27T67B-3OAKWOOD01
313810	6DAHLGREN	230.0	345	354	0.8902	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3801	D: 6BIRCHWD-6COMORN 1 + 3AMOCO Y-3YORKTWH1
314131	GARNOLDS	230.0	345	354	0.8893	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3801	D: 6BIRCHWD-6COMORN 1 + 3AMOCO Y-3YORKTWH1
314139	GOARGROV	230.0	345	354	0.8999	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3801	D: 6BIRCHWD-6COMORN 1 + 3AMOCO Y-3YORKTWH1
314175	6COMORN	230.0	345	354	0.8892	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3801	D: 6BIRCHWD-6COMORN 1 + 3AMOCO Y-3YORKTWH1
314182	6NORNECK	230.0	345	354	0.9075	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3801	D: 6BIRCHWD-6COMORN 1 + 3AMOCO Y-3YORKTWH1
314183	6SANDERS	230.0	345	354	0.9075	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3801	D: 6BIRCHWD-6COMORN 1 + 3AMOCO Y-3YORKTWH1
314190	6WESTMOR	230.0	345	354	0.9042	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3801	D: 6BIRCHWD-6COMORN 1 + 3AMOCO Y-3YORKTWH1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRaise	Viol	Ncon	Contingency Description
313610	6DAHLGREN	230.0	345	354	0.8927	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3802	D:6BIRCHWD-6COMORN 1 +3BLOXOMC-3MERCURY1
314131	6ARNOLDS	230.0	345	354	0.8918	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3802	D:6BIRCHWD-6COMORN 1 +3BLOXOMC-3MERCURY1
314139	6OAKGROV	230.0	345	354	0.9013	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3802	D:6BIRCHWD-6COMORN 1 +3BLOXOMC-3MERCURY1
314175	6COMORN	230.0	345	354	0.8917	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3802	D:6BIRCHWD-6COMORN 1 +3BLOXOMC-3MERCURY1
314183	6SANDERS	230.0	345	354	0.9099	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3802	D:6BIRCHWD-6COMORN 1 +3BLOXOMC-3MERCURY1
314190	6WESTMOR	230.0	345	354	0.9067	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3802	D:6BIRCHWD-6COMORN 1 +3BLOXOMC-3MERCURY1
313610	6DAHLGREN	230.0	345	354	0.8877	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3803	D:6BIRCHWD-6COMORN 1 +3COLONY -3WARWICK1
314131	6ARNOLDS	230.0	345	354	0.8868	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3803	D:6BIRCHWD-6COMORN 1 +3COLONY -3WARWICK1
314139	6OAKGROV	230.0	345	354	0.8964	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3803	D:6BIRCHWD-6COMORN 1 +3COLONY -3WARWICK1
314175	6COMORN	230.0	345	354	0.8867	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3803	D:6BIRCHWD-6COMORN 1 +3COLONY -3WARWICK1
314182	6NORNECK	230.0	345	354	0.9079	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3803	D:6BIRCHWD-6COMORN 1 +3COLONY -3WARWICK1
314183	6SANDERS	230.0	345	354	0.9051	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3803	D:6BIRCHWD-6COMORN 1 +3COLONY -3WARWICK1
314190	6WESTMOR	230.0	345	354	0.9018	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3803	D:6BIRCHWD-6COMORN 1 +3COLONY -3WARWICK1
313610	6DAHLGREN	230.0	345	354	0.8878	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3804	D:6BIRCHWD-6COMORN 1 +3COLONY -3YORKTWN1
314131	6ARNOLDS	230.0	345	354	0.8869	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3804	D:6BIRCHWD-6COMORN 1 +3COLONY -3YORKTWN1
314139	6OAKGROV	230.0	345	354	0.8975	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3804	D:6BIRCHWD-6COMORN 1 +3COLONY -3YORKTWN1
314175	6COMORN	230.0	345	354	0.8878	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3804	D:6BIRCHWD-6COMORN 1 +3COLONY -3YORKTWN1
314182	6NORNECK	230.0	345	354	0.9099	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3804	D:6BIRCHWD-6COMORN 1 +3COLONY -3YORKTWN1
314183	6SANDERS	230.0	345	354	0.9062	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3804	D:6BIRCHWD-6COMORN 1 +3COLONY -3YORKTWN1
314190	6WESTMOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3804	D:6BIRCHWD-6COMORN 1 +3COLONY -3YORKTWN1
313610	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3805	D:6BIRCHWD-6COMORN 1 +3COPELAND-3NEWS751
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3805	D:6BIRCHWD-6COMORN 1 +3COPELAND-3NEWS751
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3805	D:6BIRCHWD-6COMORN 1 +3COPELAND-3NEWS751
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3805	D:6BIRCHWD-6COMORN 1 +3COPELAND-3NEWS751
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3805	D:6BIRCHWD-6COMORN 1 +3COPELAND-3NEWS751
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3805	D:6BIRCHWD-6COMORN 1 +3COPELAND-3NEWS751
314190	6WESTMOR	230.0	345	354	0.9021	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3805	D:6BIRCHWD-6COMORN 1 +3COPELAND-3NEWS751
313610	6DAHLGREN	230.0	345	354	0.8908	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3806	D:6BIRCHWD-6COMORN 1 +3COPELAND-3WHEALTNI
314131	6ARNOLDS	230.0	345	354	0.8899	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3806	D:6BIRCHWD-6COMORN 1 +3COPELAND-3WHEALTNI
314139	6OAKGROV	230.0	345	354	0.8994	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3806	D:6BIRCHWD-6COMORN 1 +3COPELAND-3WHEALTNI
314175	6COMORN	230.0	345	354	0.8898	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3806	D:6BIRCHWD-6COMORN 1 +3COPELAND-3WHEALTNI
314182	6SANDERS	230.0	345	354	0.9081	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3806	D:6BIRCHWD-6COMORN 1 +3COPELAND-3WHEALTNI
314190	6WESTMOR	230.0	345	354	0.9048	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3806	D:6BIRCHWD-6COMORN 1 +3COPELAND-3WHEALTNI
313610	6DAHLGREN	230.0	345	354	0.8921	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3807	D:6BIRCHWD-6COMORN 1 +6CORRCTN-6LANEXA 1
314131	6ARNOLDS	230.0	345	354	0.8912	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3807	D:6BIRCHWD-6COMORN 1 +6CORRCTN-6LANEXA 1
314139	6OAKGROV	230.0	345	354	0.8909	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3807	D:6BIRCHWD-6COMORN 1 +6CORRCTN-6LANEXA 1
314175	6COMORN	230.0	345	354	0.8911	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3807	D:6BIRCHWD-6COMORN 1 +6CORRCTN-6LANEXA 1
314182	6NORNECK	230.0	345	354	0.8954	1.0040	0.9300	1.0700	0.9538	1.0542	LD	3807	D:6BIRCHWD-6COMORN 1 +6CORRCTN-6LANEXA 1
314183	6SANDERS	230.0	345	354	0.9025	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3807	D:6BIRCHWD-6COMORN 1 +6CORRCTN-6LANEXA 1
314190	6WESTMOR	230.0	345	354	0.8997	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3807	D:6BIRCHWD-6COMORN 1 +6CORRCTN-6LANEXA 1
313610	6DAHLGREN	230.0	345	354	0.8902	1.0014	0.9300	1.0700	0.9513	1.0515	LD	3807	D:6BIRCHWD-6COMORN 1 +6CORRCTN-6LANEXA 1
314131	6ARNOLDS	230.0	345	354	0.8963	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3807	D:6BIRCHWD-6COMORN 1 +6CORRCTN-6LANEXA 1
314139	6OAKGROV	230.0	345	354	0.8898	1.0020	0.9300	1.0700	0.9519	1.0521	LD	3807	D:6BIRCHWD-6COMORN 1 +6CORRCTN-6LANEXA 1
314175	6COMORN	230.0	345	354	0.8898	0.9844	0.9300	1.0700	0.9465	1.0461	LD	3808	D:6BIRCHWD-6COMORN 1 +6DENBIGH-6WALR2851
314182	6NORNECK	230.0	345	354	0.8933	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3808	D:6BIRCHWD-6COMORN 1 +6DENBIGH-6WALR2851
314183	6SANDERS	230.0	345	354	0.8930	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3808	D:6BIRCHWD-6COMORN 1 +6DENBIGH-6WALR2851
314190	6WESTMOR	230.0	345	354	0.8833	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3808	D:6BIRCHWD-6COMORN 1 +6DENBIGH-6WALR2851

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314182	6NORNECK	230.0	345	354	0.9046	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3808	D: 6BIRCHWD-6COMORN 1 + 6DENBIGH-6WALR28S1
314183	6SANDERS	230.0	345	354	0.9048	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3808	D: 6BIRCHWD-6COMORN 1 + 6DENBIGH-6WALR28S1
314190	6WESTMOR	230.0	345	354	0.8985	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3808	D: 6BIRCHWD-6COMORN 1 + 6DENBIGH-6WALR28S1
313810	6DAHLGREN	230.0	345	354	0.8978	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3809	D: 6BIRCHWD-6COMORN 1 + 6DENBIGH-6YORKTWN1
314131	6ARNOLDS	230.0	345	354	0.8869	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3809	D: 6BIRCHWD-6COMORN 1 + 6DENBIGH-6YORKTWN1
314139	6OAKGROV	230.0	345	354	0.8965	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3809	D: 6BIRCHWD-6COMORN 1 + 6DENBIGH-6YORKTWN1
314175	6COMORN	230.0	345	354	0.8868	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3809	D: 6BIRCHWD-6COMORN 1 + 6DENBIGH-6YORKTWN1
314182	6NORNECK	230.0	345	354	0.9080	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3809	D: 6BIRCHWD-6COMORN 1 + 6DENBIGH-6YORKTWN1
314183	6SANDERS	230.0	345	354	0.9052	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3809	D: 6BIRCHWD-6COMORN 1 + 6DENBIGH-6YORKTWN1
314190	6WESTMOR	230.0	345	354	0.9049	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3809	D: 6BIRCHWD-6COMORN 1 + 6DENBIGH-6YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.8909	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3810	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3PTEUS341
314131	6ARNOLDS	230.0	345	354	0.8891	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3810	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3PTEUS341
314139	6OAKGROV	230.0	345	354	0.8987	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3810	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3PTEUS341
314175	6COMORN	230.0	345	354	0.8890	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3810	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3PTEUS341
314182	6NORNECK	230.0	345	354	0.9073	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3810	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3PTEUS341
314190	6WESTMOR	230.0	345	354	0.9040	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3810	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3PTEUS341
313810	6DAHLGREN	230.0	345	354	0.8897	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3811	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3LANEXA 1
314131	6ARNOLDS	230.0	345	354	0.8888	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3811	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3LANEXA 1
314139	6OAKGROV	230.0	345	354	0.8984	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3811	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3LANEXA 1
314175	6COMORN	230.0	345	354	0.8887	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3811	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3LANEXA 1
314182	6NORNECK	230.0	345	354	0.9098	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3811	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3LANEXA 1
314183	6SANDERS	230.0	345	354	0.9071	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3811	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3LANEXA 1
314190	6WESTMOR	230.0	345	354	0.9038	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3811	D: 6BIRCHWD-6COMORN 1 + 3DOW 34 - 3LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.8883	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3812	D: 6BIRCHWD-6COMORN 1 + 3PTEUS34-3GRAFT341
314131	6ARNOLDS	230.0	345	354	0.8883	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3812	D: 6BIRCHWD-6COMORN 1 + 3PTEUS34-3GRAFT341
314139	6OAKGROV	230.0	345	354	0.8980	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3812	D: 6BIRCHWD-6COMORN 1 + 3PTEUS34-3GRAFT341
314175	6COMORN	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3812	D: 6BIRCHWD-6COMORN 1 + 3PTEUS34-3GRAFT341
314182	6NORNECK	230.0	345	354	0.9094	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3812	D: 6BIRCHWD-6COMORN 1 + 3PTEUS34-3GRAFT341
314183	6SANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3812	D: 6BIRCHWD-6COMORN 1 + 3PTEUS34-3GRAFT341
314190	6WESTMOR	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3812	D: 6BIRCHWD-6COMORN 1 + 3PTEUS34-3GRAFT341
313810	6DAHLGREN	230.0	345	354	0.8858	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3813	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3GRAFT581
314131	6ARNOLDS	230.0	345	354	0.8849	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3813	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3GRAFT581
314139	6OAKGROV	230.0	345	354	0.8946	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3813	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3GRAFT581
314175	6COMORN	230.0	345	354	0.8849	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3813	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3GRAFT581
314182	6NORNECK	230.0	345	354	0.9062	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3813	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3GRAFT581
314183	6SANDERS	230.0	345	354	0.9033	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3813	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3GRAFT581
314190	6WESTMOR	230.0	345	354	0.9000	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3813	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3GRAFT581
313810	6DAHLGREN	230.0	345	354	0.8859	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3814	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3LEBAN581
314131	6ARNOLDS	230.0	345	354	0.8849	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3814	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3LEBAN581
314139	6OAKGROV	230.0	345	354	0.8946	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3814	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3LEBAN581
314175	6COMORN	230.0	345	354	0.8849	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3814	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3LEBAN581
314182	6NORNECK	230.0	345	354	0.9061	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3814	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3LEBAN581
314183	6SANDERS	230.0	345	354	0.9034	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3814	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3LEBAN581
314190	6WESTMOR	230.0	345	354	0.9000	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3814	D: 6BIRCHWD-6COMORN 1 + 3PTEUS58-3LEBAN581
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3815	D: 6BIRCHWD-6COMORN 1 + 3GRAFT34-3YORKTWN1
314131	6ARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3815	D: 6BIRCHWD-6COMORN 1 + 3GRAFT34-3YORKTWN1
314139	6OAKGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3815	D: 6BIRCHWD-6COMORN 1 + 3GRAFT34-3YORKTWN1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3815	D:6BIRCHWD-6COMORN 1 +3GRAFT34-3YORKTWN1
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3815	D:6BIRCHWD-6COMORN 1 +3GRAFT34-3YORKTWN1
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3815	D:6BIRCHWD-6COMORN 1 +3GRAFT34-3YORKTWN1
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3815	D:6BIRCHWD-6COMORN 1 +3GRAFT34-3YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.8859	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3816	D:6BIRCHWD-6COMORN 1 +3GRAFT58-3YORKTWN1
314131	6ARNOLDS	230.0	345	354	0.8849	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3816	D:6BIRCHWD-6COMORN 1 +3GRAFT58-3YORKTWN1
314139	6OAKGROV	230.0	345	354	0.8846	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3816	D:6BIRCHWD-6COMORN 1 +3GRAFT58-3YORKTWN1
314175	6COMORN	230.0	345	354	0.8846	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3816	D:6BIRCHWD-6COMORN 1 +3GRAFT58-3YORKTWN1
314182	6NORNECK	230.0	345	354	0.9051	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3816	D:6BIRCHWD-6COMORN 1 +3GRAFT58-3YORKTWN1
314183	6SANDERS	230.0	345	354	0.9034	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3816	D:6BIRCHWD-6COMORN 1 +3GRAFT58-3YORKTWN1
314190	6WESTMOR	230.0	345	354	0.9000	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3816	D:6BIRCHWD-6COMORN 1 +3GRAFT58-3YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.8898	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3817	D:6BIRCHWD-6COMORN 1 +3KINGS M-3TOANO581
314131	6ARNOLDS	230.0	345	354	0.8889	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3817	D:6BIRCHWD-6COMORN 1 +3KINGS M-3TOANO581
314139	6OAKGROV	230.0	345	354	0.8885	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3817	D:6BIRCHWD-6COMORN 1 +3KINGS M-3TOANO581
314175	6COMORN	230.0	345	354	0.8885	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3817	D:6BIRCHWD-6COMORN 1 +3KINGS M-3TOANO581
314182	6NORNECK	230.0	345	354	0.9099	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3817	D:6BIRCHWD-6COMORN 1 +3KINGS M-3TOANO581
314183	6SANDERS	230.0	345	354	0.9072	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3817	D:6BIRCHWD-6COMORN 1 +3KINGS M-3TOANO581
314190	6WESTMOR	230.0	345	354	0.9039	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3817	D:6BIRCHWD-6COMORN 1 +3KINGS M-3TOANO581
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3818	D:6BIRCHWD-6COMORN 1 +3KINGS M-3YVWS 581
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3818	D:6BIRCHWD-6COMORN 1 +3KINGS M-3YVWS 581
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3818	D:6BIRCHWD-6COMORN 1 +3KINGS M-3YVWS 581
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3818	D:6BIRCHWD-6COMORN 1 +3KINGS M-3YVWS 581
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3818	D:6BIRCHWD-6COMORN 1 +3KINGS M-3YVWS 581
314183	6SANDERS	230.0	345	354	0.9034	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3818	D:6BIRCHWD-6COMORN 1 +3KINGS M-3YVWS 581
314190	6WESTMOR	230.0	345	354	0.9064	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3818	D:6BIRCHWD-6COMORN 1 +3KINGS M-3YVWS 581
313810	6DAHLGREN	230.0	345	354	0.8831	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3819	D:6BIRCHWD-6COMORN 1 +6KINGS M-6YORKTWN1
314131	6ARNOLDS	230.0	345	354	0.8825	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3819	D:6BIRCHWD-6COMORN 1 +6KINGS M-6YORKTWN1
314139	6OAKGROV	230.0	345	354	0.8922	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3819	D:6BIRCHWD-6COMORN 1 +6KINGS M-6YORKTWN1
314175	6COMORN	230.0	345	354	0.8824	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3819	D:6BIRCHWD-6COMORN 1 +6KINGS M-6YORKTWN1
314182	6NORNECK	230.0	345	354	0.9038	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3819	D:6BIRCHWD-6COMORN 1 +6KINGS M-6YORKTWN1
314183	6SANDERS	230.0	345	354	0.9010	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3819	D:6BIRCHWD-6COMORN 1 +6KINGS M-6YORKTWN1
314190	6WESTMOR	230.0	345	354	0.8976	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3819	D:6BIRCHWD-6COMORN 1 +6KINGS M-6YORKTWN1
313810	6DAHLGREN	230.0	345	354	0.8896	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3820	D:6BIRCHWD-6COMORN 1 +3LANEXA -3NNWS581
314131	6ARNOLDS	230.0	345	354	0.8887	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3820	D:6BIRCHWD-6COMORN 1 +3LANEXA -3NNWS581
314139	6OAKGROV	230.0	345	354	0.8983	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3820	D:6BIRCHWD-6COMORN 1 +3LANEXA -3NNWS581
314175	6COMORN	230.0	345	354	0.8886	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3820	D:6BIRCHWD-6COMORN 1 +3LANEXA -3NNWS581
314182	6NORNECK	230.0	345	354	0.9097	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3820	D:6BIRCHWD-6COMORN 1 +3LANEXA -3NNWS581
314183	6SANDERS	230.0	345	354	0.9070	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3820	D:6BIRCHWD-6COMORN 1 +3LANEXA -3NNWS581
314190	6WESTMOR	230.0	345	354	0.9037	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3820	D:6BIRCHWD-6COMORN 1 +3LANEXA -3NNWS581
313810	6DAHLGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3821	D:6BIRCHWD-6COMORN 1 +3LANEXA -6LANEXA 1
314131	6ARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3821	D:6BIRCHWD-6COMORN 1 +3LANEXA -6LANEXA 1
314139	6OAKGROV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3821	D:6BIRCHWD-6COMORN 1 +3LANEXA -6LANEXA 1
314175	6COMORN	230.0	345	354	0.8882	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3821	D:6BIRCHWD-6COMORN 1 +3LANEXA -6LANEXA 1
314182	6NORNECK	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3821	D:6BIRCHWD-6COMORN 1 +3LANEXA -6LANEXA 1
314183	6SANDERS	230.0	345	354	0.9065	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3821	D:6BIRCHWD-6COMORN 1 +3LANEXA -6LANEXA 1
314190	6WESTMOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3821	D:6BIRCHWD-6COMORN 1 +3LANEXA -6LANEXA 1
313810	6DAHLGREN	230.0	345	354	0.8881	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3822	D:6BIRCHWD-6COMORN 1 +3LANEXA -6LANEXA 2

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Neon	Contingency Description
314131	GARNOLDS	230.0	345	354	0.8872	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3822	D:6BIRCHWD-6COMORN 1 +31ANEXA -6LANEXA 2
314139	GOAKGROV	230.0	345	354	0.8969	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3822	D:6BIRCHWD-6COMORN 1 +31ANEXA -6LANEXA 2
314175	6COMORN	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3822	D:6BIRCHWD-6COMORN 1 +31ANEXA -6LANEXA 2
314182	6NORNECK	230.0	345	354	0.9083	0.9844	0.9300	1.0700	0.9352	1.0372	LD	3822	D:6BIRCHWD-6COMORN 1 +31ANEXA -6LANEXA 2
314183	6SANDERS	230.0	345	354	0.9056	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3822	D:6BIRCHWD-6COMORN 1 +31ANEXA -6LANEXA 2
314190	6WESTMOR	230.0	345	354	0.9022	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3822	D:6BIRCHWD-6COMORN 1 +31ANEXA -6LANEXA 2
313810	6DAHLGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3823	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LIGH2091
314131	GARNOLDS	230.0	345	354	0.8883	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3823	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LIGH2091
314139	GOAKGROV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3823	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LIGH2091
314175	6COMORN	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3823	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LIGH2091
314182	6NORNECK	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0372	LD	3823	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LIGH2091
314183	6SANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3823	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LIGH2091
314190	6WESTMOR	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3823	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LIGH2091
313810	6DAHLGREN	230.0	345	354	0.8705	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3824	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LANEX 11
314131	GARNOLDS	230.0	345	354	0.8695	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3824	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LANEX 11
314139	GOAKGROV	230.0	345	354	0.8795	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3824	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LANEX 11
314175	6COMORN	230.0	345	354	0.9051	0.9881	0.9300	1.0700	0.9387	1.0376	LD	3824	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LANEX 11
314182	6NORNECK	230.0	345	354	0.8695	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3824	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LANEX 11
314183	6SANDERS	230.0	345	354	0.8874	0.9844	0.9300	1.0700	0.9352	1.0372	LD	3824	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LANEX 11
314190	6WESTMOR	230.0	345	354	0.8970	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3824	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LANEX 11
313810	6DAHLGREN	230.0	345	354	0.8874	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3824	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LANEX 11
314131	GARNOLDS	230.0	345	354	0.8885	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3824	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LANEX 11
314139	GOAKGROV	230.0	345	354	0.8850	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3824	D:6BIRCHWD-6COMORN 1 +61ANEXA -6LANEX 11
314175	6COMORN	230.0	345	354	0.8883	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3825	D:6BIRCHWD-6COMORN 1 +31EBAN58-3YVWS 581
314182	6NORNECK	230.0	345	354	0.8874	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3825	D:6BIRCHWD-6COMORN 1 +31EBAN58-3YVWS 581
314183	6SANDERS	230.0	345	354	0.8970	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3825	D:6BIRCHWD-6COMORN 1 +31EBAN58-3YVWS 581
314190	6WESTMOR	230.0	345	354	0.8874	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3825	D:6BIRCHWD-6COMORN 1 +31EBAN58-3YVWS 581
313810	6DAHLGREN	230.0	345	354	0.9085	0.9848	0.9300	1.0700	0.9352	1.0372	LD	3825	D:6BIRCHWD-6COMORN 1 +31EBAN58-3YVWS 581
314131	GARNOLDS	230.0	345	354	0.9057	0.9894	0.9300	1.0700	0.9356	1.0341	LD	3825	D:6BIRCHWD-6COMORN 1 +31EBAN58-3YVWS 581
314139	GOAKGROV	230.0	345	354	0.9024	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3825	D:6BIRCHWD-6COMORN 1 +31EBAN58-3YVWS 581
314175	6COMORN	230.0	345	354	0.8789	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3826	D:6BIRCHWD-6COMORN 1 +61IGH285-6WALR2851
314182	6NORNECK	230.0	345	354	0.8886	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3826	D:6BIRCHWD-6COMORN 1 +61IGH285-6WALR2851
314183	6SANDERS	230.0	345	354	0.8788	0.9963	0.9300	1.0700	0.9457	1.0452	LD	3826	D:6BIRCHWD-6COMORN 1 +61IGH285-6WALR2851
314190	6WESTMOR	230.0	345	354	0.9003	0.9844	0.9300	1.0700	0.9352	1.0372	LD	3826	D:6BIRCHWD-6COMORN 1 +61IGH285-6WALR2851
313810	6DAHLGREN	230.0	345	354	0.8975	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3826	D:6BIRCHWD-6COMORN 1 +61IGH285-6WALR2851
314131	GARNOLDS	230.0	345	354	0.8941	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3826	D:6BIRCHWD-6COMORN 1 +61IGH285-6WALR2851
314139	GOAKGROV	230.0	345	354	0.8881	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3827	D:6BIRCHWD-6COMORN 1 +61IGH209-6WALR2091
314175	6COMORN	230.0	345	354	0.8972	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3827	D:6BIRCHWD-6COMORN 1 +61IGH209-6WALR2091
314182	6NORNECK	230.0	345	354	0.8969	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3827	D:6BIRCHWD-6COMORN 1 +61IGH209-6WALR2091
314183	6SANDERS	230.0	345	354	0.9083	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3827	D:6BIRCHWD-6COMORN 1 +61IGH209-6WALR2091
314190	6WESTMOR	230.0	345	354	0.9022	0.9844	0.9300	1.0700	0.9352	1.0372	LD	3827	D:6BIRCHWD-6COMORN 1 +61IGH209-6WALR2091
313810	6DAHLGREN	230.0	345	354	0.8890	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3827	D:6BIRCHWD-6COMORN 1 +61IGH209-6WALR2091
314131	GARNOLDS	230.0	345	354	0.8881	0.9894	0.9300	1.0700	0.9370	1.0356	LD	3827	D:6BIRCHWD-6COMORN 1 +61IGH209-6WALR2091
314139	GOAKGROV	230.0	345	354	0.8977	0.9863	0.9300	1.0700	0.9400	1.0389	LD	3828	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3PENINS11
314175	6COMORN	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3828	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3PENINS11
314182	6NORNECK	230.0	345	354	0.9081	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3828	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3PENINS11
314183	6SANDERS	230.0	345	354	0.9052	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3828	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3PENINS11
314190	6WESTMOR	230.0	345	354	0.9081	0.9844	0.9300	1.0700	0.9352	1.0372	LD	3828	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3PENINS11

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3828	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3PENINS11
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3828	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3PENINS11
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3828	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3PENINS11
314131	6BARNOLDS	230.0	345	354	0.8878	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3829	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3SHELBNK1
314139	6OAKGROV	230.0	345	354	0.8975	0.9878	0.9300	1.0700	0.9384	1.0452	LD	3829	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3SHELBNK1
314175	6COMORN	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0452	LD	3829	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3SHELBNK1
314182	6BARNOLDS	230.0	345	354	0.9029	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3829	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3SHELBNK1
314183	6SANDERS	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3829	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3SHELBNK1
314190	6WESTMOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3829	D:6BIRCHWD-6COMORN 1 +3MAGRUDR-3SHELBNK1
314131	6BARNOLDS	230.0	345	354	0.8943	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3830	D:6BIRCHWD-6COMORN 1 +3MERCURY-3SHELBNK1
314139	6OAKGROV	230.0	345	354	0.8994	0.9854	0.9300	1.0700	0.9457	1.0452	LD	3830	D:6BIRCHWD-6COMORN 1 +3MERCURY-3SHELBNK1
314175	6COMORN	230.0	345	354	0.9029	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3830	D:6BIRCHWD-6COMORN 1 +3MERCURY-3SHELBNK1
314182	6BARNOLDS	230.0	345	354	0.8933	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3830	D:6BIRCHWD-6COMORN 1 +3MERCURY-3SHELBNK1
314183	6SANDERS	230.0	345	354	0.9062	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3830	D:6BIRCHWD-6COMORN 1 +3MERCURY-3SHELBNK1
314190	6WESTMOR	230.0	345	354	0.9062	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3830	D:6BIRCHWD-6COMORN 1 +3MERCURY-3SHELBNK1
314131	6BARNOLDS	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3831	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS11
314139	6OAKGROV	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3831	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS11
314175	6COMORN	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3831	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS11
314182	6BARNOLDS	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3831	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS11
314183	6SANDERS	230.0	345	354	0.9021	0.9848	0.9300	1.0700	0.9352	1.0341	LD	3831	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS11
314190	6WESTMOR	230.0	345	354	0.9021	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3831	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS11
314131	6BARNOLDS	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3832	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS12
314139	6OAKGROV	230.0	345	354	0.8890	0.9854	0.9300	1.0700	0.9457	1.0452	LD	3832	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS12
314175	6COMORN	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3832	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS12
314182	6BARNOLDS	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3832	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS12
314183	6SANDERS	230.0	345	354	0.9021	0.9848	0.9300	1.0700	0.9352	1.0341	LD	3832	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS12
314190	6WESTMOR	230.0	345	354	0.9021	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3832	D:6BIRCHWD-6COMORN 1 +3NASA -3PENINS12
314131	6BARNOLDS	230.0	345	354	0.8887	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3833	D:6BIRCHWD-6COMORN 1 +3NNWS58-3TOANO581
314139	6OAKGROV	230.0	345	354	0.8887	0.9854	0.9300	1.0700	0.9457	1.0452	LD	3833	D:6BIRCHWD-6COMORN 1 +3NNWS58-3TOANO581
314175	6COMORN	230.0	345	354	0.8887	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3833	D:6BIRCHWD-6COMORN 1 +3NNWS58-3TOANO581
314182	6BARNOLDS	230.0	345	354	0.9098	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3833	D:6BIRCHWD-6COMORN 1 +3NNWS58-3TOANO581
314183	6SANDERS	230.0	345	354	0.9070	0.9863	0.9300	1.0700	0.9356	1.0341	LD	3833	D:6BIRCHWD-6COMORN 1 +3NNWS58-3TOANO581
314190	6WESTMOR	230.0	345	354	0.9037	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3833	D:6BIRCHWD-6COMORN 1 +3NNWS58-3TOANO581
314131	6BARNOLDS	230.0	345	354	0.8560	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314139	6OAKGROV	230.0	345	354	0.8550	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314175	6COMORN	230.0	345	354	0.8622	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314182	6BARNOLDS	230.0	345	354	0.8719	0.9881	0.9300	1.0700	0.9387	1.0376	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314183	6SANDERS	230.0	345	354	0.8550	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314190	6WESTMOR	230.0	345	354	0.8775	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314131	6BARNOLDS	230.0	345	354	0.8746	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314139	6OAKGROV	230.0	345	354	0.8719	0.9881	0.9300	1.0700	0.9387	1.0376	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314175	6COMORN	230.0	345	354	0.8550	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314182	6BARNOLDS	230.0	345	354	0.8746	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314183	6SANDERS	230.0	345	354	0.8719	0.9881	0.9300	1.0700	0.9387	1.0376	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314190	6WESTMOR	230.0	345	354	0.8550	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3834	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6PEMBROK1
314131	6BARNOLDS	230.0	345	354	0.8840	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3835	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6NP NE.11
314139	6OAKGROV	230.0	345	354	0.8921	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3835	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6NP NE.11
314175	6COMORN	230.0	345	354	0.8927	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3835	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6NP NE.11
314182	6BARNOLDS	230.0	345	354	0.8830	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3835	D:6BIRCHWD-6COMORN 1 +6NP NEWS-6NP NE.11

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314182	GNORNECK	230.0	345	354	0.9043	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3835	D:6BIRCHWD-6COMORN 1 +6NPN-6NPN NE 11
314183	GSANDERS	230.0	345	354	0.9015	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3835	D:6BIRCHWD-6COMORN 1 +6NPN-6NPN NE 11
314190	GWESTMOR	230.0	345	354	0.8982	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3835	D:6BIRCHWD-6COMORN 1 +6NPN-6NPN NE 11
313810	GDHILGREN	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3836	D:6BIRCHWD-6COMORN 1 +6P2MBROK-6SHELBNK1
314131	BAROLDIS	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3836	D:6BIRCHWD-6COMORN 1 +6P2MBROK-6SHELBNK1
314139	GOAKGROV	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3836	D:6BIRCHWD-6COMORN 1 +6P2MBROK-6SHELBNK1
314172	GNORNECK	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3836	D:6BIRCHWD-6COMORN 1 +6P2MBROK-6SHELBNK1
314175	GCORN	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3836	D:6BIRCHWD-6COMORN 1 +6P2MBROK-6SHELBNK1
314182	GNORNECK	230.0	345	354	0.8974	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3836	D:6BIRCHWD-6COMORN 1 +6P2MBROK-6SHELBNK1
314183	GSANDERS	230.0	345	354	0.8974	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3836	D:6BIRCHWD-6COMORN 1 +6P2MBROK-6SHELBNK1
314190	GWESTMOR	230.0	345	354	0.8974	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3836	D:6BIRCHWD-6COMORN 1 +6P2MBROK-6SHELBNK1
313810	GDHILGREN	230.0	345	354	0.8974	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3837	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD761
314131	BAROLDIS	230.0	345	354	0.8974	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3837	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD761
314139	GOAKGROV	230.0	345	354	0.8974	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3837	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD761
314172	GNORNECK	230.0	345	354	0.8974	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3837	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD761
314175	GCORN	230.0	345	354	0.8974	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3837	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD761
314182	GNORNECK	230.0	345	354	0.9067	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3837	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD761
314183	GSANDERS	230.0	345	354	0.9067	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3837	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD761
314190	GWESTMOR	230.0	345	354	0.9067	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3837	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD761
313810	GDHILGREN	230.0	345	354	0.8896	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3838	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD791
314131	BAROLDIS	230.0	345	354	0.8896	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3838	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD791
314139	GOAKGROV	230.0	345	354	0.8896	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3838	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD791
314172	GNORNECK	230.0	345	354	0.8896	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3838	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD791
314175	GCORN	230.0	345	354	0.8896	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3838	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD791
314182	GNORNECK	230.0	345	354	0.8977	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3838	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD791
314183	GSANDERS	230.0	345	354	0.8977	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3838	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD791
314190	GWESTMOR	230.0	345	354	0.8977	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3838	D:6BIRCHWD-6COMORN 1 +3PENINSL-3SEAFD791
313810	GDHILGREN	230.0	345	354	0.8884	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3839	D:6BIRCHWD-6COMORN 1 +3PENINSL-3U CARB01
314131	BAROLDIS	230.0	345	354	0.8884	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3839	D:6BIRCHWD-6COMORN 1 +3PENINSL-3U CARB01
314139	GOAKGROV	230.0	345	354	0.8884	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3839	D:6BIRCHWD-6COMORN 1 +3PENINSL-3U CARB01
314172	GNORNECK	230.0	345	354	0.8884	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3839	D:6BIRCHWD-6COMORN 1 +3PENINSL-3U CARB01
314175	GCORN	230.0	345	354	0.8884	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3839	D:6BIRCHWD-6COMORN 1 +3PENINSL-3U CARB01
314182	GNORNECK	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3839	D:6BIRCHWD-6COMORN 1 +3PENINSL-3U CARB01
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3839	D:6BIRCHWD-6COMORN 1 +3PENINSL-3U CARB01
314190	GWESTMOR	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3839	D:6BIRCHWD-6COMORN 1 +3PENINSL-3U CARB01
313810	GDHILGREN	230.0	345	354	0.8875	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3840	D:6BIRCHWD-6COMORN 1 +3PENINSL-3PENIN 11
314131	BAROLDIS	230.0	345	354	0.8875	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3840	D:6BIRCHWD-6COMORN 1 +3PENINSL-3PENIN 11
314139	GOAKGROV	230.0	345	354	0.8875	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3840	D:6BIRCHWD-6COMORN 1 +3PENINSL-3PENIN 11
314172	GNORNECK	230.0	345	354	0.8875	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3840	D:6BIRCHWD-6COMORN 1 +3PENINSL-3PENIN 11
314175	GCORN	230.0	345	354	0.8875	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3840	D:6BIRCHWD-6COMORN 1 +3PENINSL-3PENIN 11
314182	GNORNECK	230.0	345	354	0.9077	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3840	D:6BIRCHWD-6COMORN 1 +3PENINSL-3PENIN 11
314183	GSANDERS	230.0	345	354	0.9077	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3840	D:6BIRCHWD-6COMORN 1 +3PENINSL-3PENIN 11
314190	GWESTMOR	230.0	345	354	0.9077	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3840	D:6BIRCHWD-6COMORN 1 +3PENINSL-3PENIN 11
313810	GDHILGREN	230.0	345	354	0.9046	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3840	D:6BIRCHWD-6COMORN 1 +3PENINSL-3PENIN 11
314131	BAROLDIS	230.0	345	354	0.9046	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3840	D:6BIRCHWD-6COMORN 1 +3PENINSL-3PENIN 11
314139	GOAKGROV	230.0	345	354	0.9046	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3840	D:6BIRCHWD-6COMORN 1 +3PENINSL-3PENIN 11
314172	GNORNECK	230.0	345	354	0.8875	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3841	D:6BIRCHWD-6COMORN 1 +3PENINSL-6PENINSL1
314175	GCORN	230.0	345	354	0.8875	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3841	D:6BIRCHWD-6COMORN 1 +3PENINSL-6PENINSL1
314182	GNORNECK	230.0	345	354	0.8875	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3841	D:6BIRCHWD-6COMORN 1 +3PENINSL-6PENINSL1
314183	GSANDERS	230.0	345	354	0.8875	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3841	D:6BIRCHWD-6COMORN 1 +3PENINSL-6PENINSL1
314190	GWESTMOR	230.0	345	354	0.8875	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3841	D:6BIRCHWD-6COMORN 1 +3PENINSL-6PENINSL1
313810	GDHILGREN	230.0	345	354	0.9025	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3842	D:6BIRCHWD-6COMORN 1 +6PENINSL-6SHELBNK1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314131	GARNOLDS	230.0	345	354	0.8866	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3842	D:6BIRCHWD-6COMORN 1 +6PENINSL-6SHELBNK1
314139	GOAKGROV	230.0	345	354	0.8963	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3842	D:6BIRCHWD-6COMORN 1 +6PENINSL-6SHELBNK1
314175	6COMORN	230.0	345	354	0.8963	0.9878	0.9300	1.0700	0.9465	1.0461	LD	3842	D:6BIRCHWD-6COMORN 1 +6PENINSL-6SHELBNK1
314182	6BONECK	230.0	345	354	0.9077	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3842	D:6BIRCHWD-6COMORN 1 +6PENINSL-6SHELBNK1
314183	6SANDERS	230.0	345	354	0.9050	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3842	D:6BIRCHWD-6COMORN 1 +6PENINSL-6SHELBNK1
314190	6WESTMOR	230.0	345	354	0.9017	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3842	D:6BIRCHWD-6COMORN 1 +6PENINSL-6SHELBNK1
314190	6DAILGREN	230.0	345	354	0.8945	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3843	D:6BIRCHWD-6COMORN 1 +6PENINSL-6TABB 1
314131	GARNOLDS	230.0	345	354	0.8966	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3843	D:6BIRCHWD-6COMORN 1 +6PENINSL-6TABB 1
314139	GOAKGROV	230.0	345	354	0.9002	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3843	D:6BIRCHWD-6COMORN 1 +6PENINSL-6TABB 1
314175	6COMORN	230.0	345	354	0.8905	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3843	D:6BIRCHWD-6COMORN 1 +6PENINSL-6TABB 1
314183	6SANDERS	230.0	345	354	0.9088	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3843	D:6BIRCHWD-6COMORN 1 +6PENINSL-6TABB 1
314190	6WESTMOR	230.0	345	354	0.9055	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3843	D:6BIRCHWD-6COMORN 1 +6PENINSL-6TABB 1
313810	6DAILGREN	230.0	345	354	0.8887	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3844	D:6BIRCHWD-6COMORN 1 +3SEAFD76-3YORKTWN1
314131	GARNOLDS	230.0	345	354	0.8878	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3844	D:6BIRCHWD-6COMORN 1 +3SEAFD76-3YORKTWN1
314139	GOAKGROV	230.0	345	354	0.8975	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3844	D:6BIRCHWD-6COMORN 1 +3SEAFD76-3YORKTWN1
314175	6COMORN	230.0	345	354	0.8878	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3844	D:6BIRCHWD-6COMORN 1 +3SEAFD76-3YORKTWN1
314182	6BONECK	230.0	345	354	0.9069	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3844	D:6BIRCHWD-6COMORN 1 +3SEAFD76-3YORKTWN1
314183	6SANDERS	230.0	345	354	0.9061	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3844	D:6BIRCHWD-6COMORN 1 +3SEAFD76-3YORKTWN1
314190	6WESTMOR	230.0	345	354	0.9028	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3844	D:6BIRCHWD-6COMORN 1 +3SEAFD76-3YORKTWN1
313810	6DAILGREN	230.0	345	354	0.8888	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3845	D:6BIRCHWD-6COMORN 1 +3SEAFD79-3YORKTWN1
314131	GARNOLDS	230.0	345	354	0.8879	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3845	D:6BIRCHWD-6COMORN 1 +3SEAFD79-3YORKTWN1
314139	GOAKGROV	230.0	345	354	0.8975	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3845	D:6BIRCHWD-6COMORN 1 +3SEAFD79-3YORKTWN1
314175	6COMORN	230.0	345	354	0.8878	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3845	D:6BIRCHWD-6COMORN 1 +3SEAFD79-3YORKTWN1
314182	6BONECK	230.0	345	354	0.9089	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3845	D:6BIRCHWD-6COMORN 1 +3SEAFD79-3YORKTWN1
314183	6SANDERS	230.0	345	354	0.9062	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3845	D:6BIRCHWD-6COMORN 1 +3SEAFD79-3YORKTWN1
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3845	D:6BIRCHWD-6COMORN 1 +3SEAFD79-3YORKTWN1
313810	6DAILGREN	230.0	345	354	0.8876	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3846	D:6BIRCHWD-6COMORN 1 +3SHELBNK-3WHEALTW1
314131	GARNOLDS	230.0	345	354	0.8869	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3846	D:6BIRCHWD-6COMORN 1 +3SHELBNK-3WHEALTW1
314139	GOAKGROV	230.0	345	354	0.8980	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3846	D:6BIRCHWD-6COMORN 1 +3SHELBNK-3WHEALTW1
314175	6COMORN	230.0	345	354	0.8977	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3846	D:6BIRCHWD-6COMORN 1 +3SHELBNK-3WHEALTW1
314182	6BONECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3846	D:6BIRCHWD-6COMORN 1 +3SHELBNK-3WHEALTW1
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3846	D:6BIRCHWD-6COMORN 1 +3SHELBNK-3WHEALTW1
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3846	D:6BIRCHWD-6COMORN 1 +3SHELBNK-3WHEALTW1
313810	6DAILGREN	230.0	345	354	0.8876	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3847	D:6BIRCHWD-6COMORN 1 +3SHELBNK-6SHELBNK1
314131	GARNOLDS	230.0	345	354	0.8867	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3847	D:6BIRCHWD-6COMORN 1 +3SHELBNK-6SHELBNK1
314139	GOAKGROV	230.0	345	354	0.8963	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3847	D:6BIRCHWD-6COMORN 1 +3SHELBNK-6SHELBNK1
314175	6COMORN	230.0	345	354	0.8866	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3847	D:6BIRCHWD-6COMORN 1 +3SHELBNK-6SHELBNK1
314182	6BONECK	230.0	345	354	0.9078	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3847	D:6BIRCHWD-6COMORN 1 +3SHELBNK-6SHELBNK1
314183	6SANDERS	230.0	345	354	0.9050	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3847	D:6BIRCHWD-6COMORN 1 +3SHELBNK-6SHELBNK1
314190	6WESTMOR	230.0	345	354	0.9017	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3847	D:6BIRCHWD-6COMORN 1 +3SHELBNK-6SHELBNK1
313810	6DAILGREN	230.0	345	354	0.8942	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3848	D:6BIRCHWD-6COMORN 1 +6TABB -6YORKTWN1
314131	GARNOLDS	230.0	345	354	0.8933	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3848	D:6BIRCHWD-6COMORN 1 +6TABB -6YORKTWN1
314139	GOAKGROV	230.0	345	354	0.9029	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3848	D:6BIRCHWD-6COMORN 1 +6TABB -6YORKTWN1
314175	6COMORN	230.0	345	354	0.8933	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3848	D:6BIRCHWD-6COMORN 1 +6TABB -6YORKTWN1
314182	6BONECK	230.0	345	354	0.9082	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3848	D:6BIRCHWD-6COMORN 1 +6TABB -6YORKTWN1
314183	6SANDERS	230.0	345	354	0.9055	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3848	D:6BIRCHWD-6COMORN 1 +6TABB -6YORKTWN1
314190	6WESTMOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3848	D:6BIRCHWD-6COMORN 1 +6TABB -6YORKTWN1
313810	6DAILGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3849	D:6BIRCHWD-6COMORN 1 +3U CARBD-3WHEALTW1
314131	GARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3849	D:6BIRCHWD-6COMORN 1 +3U CARBD-3WHEALTW1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314139	60AKGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3849	D: 6BIRCHWD-6COMORN 1 + 3U CARBD-3WHEALTNI
314175	60MORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3849	D: 6BIRCHWD-6COMORN 1 + 3U CARBD-3WHEALTNI
314182	60RNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3849	D: 6BIRCHWD-6COMORN 1 + 3U CARBD-3WHEALTNI
314183	60SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3849	D: 6BIRCHWD-6COMORN 1 + 3U CARBD-3WHEALTNI
314190	60WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3849	D: 6BIRCHWD-6COMORN 1 + 3U CARBD-3WHEALTNI
314180	60AHLGREN	230.0	345	354	0.8963	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3850	D: 6BIRCHWD-6COMORN 1 + 3WAWTICK-3WHEALTNI
314131	60ARNOLDS	230.0	345	354	0.8954	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3850	D: 6BIRCHWD-6COMORN 1 + 3WAWTICK-3WHEALTNI
314139	60AKGROV	230.0	345	354	0.8953	0.9963	0.9300	1.0700	0.9457	1.0452	LD	3850	D: 6BIRCHWD-6COMORN 1 + 3WAWTICK-3WHEALTNI
314175	60MORN	230.0	345	354	0.8953	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3850	D: 6BIRCHWD-6COMORN 1 + 3WAWTICK-3WHEALTNI
314182	60RNECK	230.0	345	354	0.9065	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3850	D: 6BIRCHWD-6COMORN 1 + 3WAWTICK-3WHEALTNI
314183	60SANDERS	230.0	345	354	0.9038	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3850	D: 6BIRCHWD-6COMORN 1 + 3WAWTICK-3WHEALTNI
314190	60WESTMOR	230.0	345	354	0.9004	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3850	D: 6BIRCHWD-6COMORN 1 + 3WAWTICK-3WHEALTNI
314180	60AHLGREN	230.0	345	354	0.8974	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3851	D: 6BIRCHWD-6COMORN 1 + 6WAWTICK-6WHEALTNI
314131	60ARNOLDS	230.0	345	354	0.8965	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3851	D: 6BIRCHWD-6COMORN 1 + 6WAWTICK-6WHEALTNI
314139	60AKGROV	230.0	345	354	0.8972	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3852	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
314175	60MORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3852	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
314182	60RNECK	230.0	345	354	0.9087	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3852	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
314183	60SANDERS	230.0	345	354	0.9059	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3852	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
314190	60WESTMOR	230.0	345	354	0.9026	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3852	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
313810	60AHLGREN	230.0	345	354	0.8864	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3853	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
314131	60ARNOLDS	230.0	345	354	0.8875	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3853	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
314139	60AKGROV	230.0	345	354	0.8971	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3853	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
314175	60MORN	230.0	345	354	0.8971	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3853	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
314182	60RNECK	230.0	345	354	0.9085	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3853	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
314183	60SANDERS	230.0	345	354	0.9058	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3853	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
314190	60WESTMOR	230.0	345	354	0.9025	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3853	D: 6BIRCHWD-6COMORN 1 + 3WHEALTIN-6WHEALTNI
313810	60AHLGREN	230.0	345	354	0.8824	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3854	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314131	60ARNOLDS	230.0	345	354	0.8974	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3854	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314139	60AKGROV	230.0	345	354	0.8972	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3854	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314175	60MORN	230.0	345	354	0.8972	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3854	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314182	60RNECK	230.0	345	354	0.9028	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3854	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314183	60SANDERS	230.0	345	354	0.9000	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3854	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314190	60WESTMOR	230.0	345	354	0.8966	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3854	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
313810	60AHLGREN	230.0	345	354	0.8910	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3855	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314131	60ARNOLDS	230.0	345	354	0.8908	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3855	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314139	60AKGROV	230.0	345	354	0.8908	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3855	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314175	60MORN	230.0	345	354	0.8910	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3855	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314182	60RNECK	230.0	345	354	0.9024	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3855	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314183	60SANDERS	230.0	345	354	0.8996	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3855	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI
314190	60WESTMOR	230.0	345	354	0.8962	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3855	D: 6BIRCHWD-6COMORN 1 + 6WHEALTIN-6WHEALTNI

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.8662	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3856	D: 6BIRCHWD-6COMORN 1 +6WINCHST-6POOLSVL1
314131	6ARNOLDS	230.0	345	354	0.8663	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3856	D: 6BIRCHWD-6COMORN 1 +6WINCHST-6POOLSVL1
314139	6OAKGROV	230.0	345	354	0.8753	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3856	D: 6BIRCHWD-6COMORN 1 +6WINCHST-6POOLSVL1
314172	6DUNNSVL	230.0	345	354	0.9042	0.9681	0.9300	1.0700	0.9384	1.0376	LD	3856	D: 6BIRCHWD-6COMORN 1 +6WINCHST-6POOLSVL1
314175	6COMORN	230.0	345	354	0.8652	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3856	D: 6BIRCHWD-6COMORN 1 +6WINCHST-6POOLSVL1
314182	6NORNECK	230.0	345	354	0.8873	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3856	D: 6BIRCHWD-6COMORN 1 +6WINCHST-6POOLSVL1
314183	6SANDERS	230.0	345	354	0.8844	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3856	D: 6BIRCHWD-6COMORN 1 +6WINCHST-6POOLSVL1
314190	6WESTMOR	230.0	345	354	0.8809	0.9844	0.9300	1.0700	0.9370	1.0356	LD	3856	D: 6BIRCHWD-6COMORN 1 +6WINCHST-6POOLSVL1
313810	6DAHLGREN	230.0	345	354	0.8880	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3857	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-3YORK PSI
314131	6ARNOLDS	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9457	1.0452	LD	3857	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-3YORK PSI
314139	6OAKGROV	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3857	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-3YORK PSI
314172	6DUNNSVL	230.0	345	354	0.9042	0.9681	0.9300	1.0700	0.9384	1.0376	LD	3857	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-3YORK PSI
314175	6COMORN	230.0	345	354	0.8652	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3857	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-3YORK PSI
314182	6NORNECK	230.0	345	354	0.8873	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3857	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-3YORK PSI
314183	6SANDERS	230.0	345	354	0.8844	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3857	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-3YORK PSI
314190	6WESTMOR	230.0	345	354	0.8809	0.9844	0.9300	1.0700	0.9370	1.0356	LD	3857	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-3YORK PSI
313810	6DAHLGREN	230.0	345	354	0.8880	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3858	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-1YORKTWN21
314131	6ARNOLDS	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9457	1.0452	LD	3858	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-1YORKTWN21
314139	6OAKGROV	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3858	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-1YORKTWN21
314172	6DUNNSVL	230.0	345	354	0.9042	0.9681	0.9300	1.0700	0.9384	1.0376	LD	3858	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-1YORKTWN21
314175	6COMORN	230.0	345	354	0.8652	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3858	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-1YORKTWN21
314182	6NORNECK	230.0	345	354	0.8873	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3858	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-1YORKTWN21
314183	6SANDERS	230.0	345	354	0.8844	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3858	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-1YORKTWN21
314190	6WESTMOR	230.0	345	354	0.8809	0.9844	0.9300	1.0700	0.9370	1.0356	LD	3858	D: 6BIRCHWD-6COMORN 1 +3YORKTWN-1YORKTWN21
313810	6DAHLGREN	230.0	345	354	0.8880	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3859	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-6YORKT 11
314131	6ARNOLDS	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9457	1.0452	LD	3859	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-6YORKT 11
314139	6OAKGROV	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3859	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-6YORKT 11
314172	6DUNNSVL	230.0	345	354	0.9042	0.9681	0.9300	1.0700	0.9384	1.0376	LD	3859	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-6YORKT 11
314175	6COMORN	230.0	345	354	0.8652	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3859	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-6YORKT 11
314182	6NORNECK	230.0	345	354	0.8873	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3859	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-6YORKT 11
314183	6SANDERS	230.0	345	354	0.8844	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3859	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-6YORKT 11
314190	6WESTMOR	230.0	345	354	0.8809	0.9844	0.9300	1.0700	0.9370	1.0356	LD	3859	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-6YORKT 11
313810	6DAHLGREN	230.0	345	354	0.8880	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3860	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-3YORK PSI
314131	6ARNOLDS	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9457	1.0452	LD	3860	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-3YORK PSI
314139	6OAKGROV	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3860	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-3YORK PSI
314172	6DUNNSVL	230.0	345	354	0.9042	0.9681	0.9300	1.0700	0.9384	1.0376	LD	3860	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-3YORK PSI
314175	6COMORN	230.0	345	354	0.8652	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3860	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-3YORK PSI
314182	6NORNECK	230.0	345	354	0.8873	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3860	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-3YORK PSI
314183	6SANDERS	230.0	345	354	0.8844	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3860	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-3YORK PSI
314190	6WESTMOR	230.0	345	354	0.8809	0.9844	0.9300	1.0700	0.9370	1.0356	LD	3860	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-3YORK PSI
313810	6DAHLGREN	230.0	345	354	0.8880	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3861	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-1YORKTWN31
314131	6ARNOLDS	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9457	1.0452	LD	3861	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-1YORKTWN31
314139	6OAKGROV	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3861	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-1YORKTWN31
314172	6DUNNSVL	230.0	345	354	0.9042	0.9681	0.9300	1.0700	0.9384	1.0376	LD	3861	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-1YORKTWN31
314175	6COMORN	230.0	345	354	0.8652	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3861	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-1YORKTWN31
314182	6NORNECK	230.0	345	354	0.8873	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3861	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-1YORKTWN31
314183	6SANDERS	230.0	345	354	0.8844	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3861	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-1YORKTWN31
314190	6WESTMOR	230.0	345	354	0.8809	0.9844	0.9300	1.0700	0.9370	1.0356	LD	3861	D: 6BIRCHWD-6COMORN 1 +6YORKTWN-1YORKTWN31
313810	6DAHLGREN	230.0	345	354	0.8880	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3862	D: 6BIRCHWD-6COMORN 1 +3ALEX CR-3BOWERS 1
314131	6ARNOLDS	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9457	1.0452	LD	3862	D: 6BIRCHWD-6COMORN 1 +3ALEX CR-3BOWERS 1
314139	6OAKGROV	230.0	345	354	0.8870	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3862	D: 6BIRCHWD-6COMORN 1 +3ALEX CR-3BOWERS 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314175	6COMORN	230.0	345	354	0.8882	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3862	D:6BIRCHWD-6COMORN 1 +3ALEX CR-3BOWERS 1
314182	6GNORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3862	D:6BIRCHWD-6COMORN 1 +3ALEX CR-3BOWERS 1
314183	6SANDERS	230.0	345	354	0.9065	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3862	D:6BIRCHWD-6COMORN 1 +3ALEX CR-3BOWERS 1
314190	6WESTMOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3862	D:6BIRCHWD-6COMORN 1 +3ALEX CR-3BOWERS 1
313810	6DAHLGREN	230.0	345	354	0.8899	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3863	D:6BIRCHWD-6COMORN 1 +3STORE -3LONGC271
314131	6ARNOLDS	230.0	345	354	0.8891	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3863	D:6BIRCHWD-6COMORN 1 +3STORE -3LONGC271
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3863	D:6BIRCHWD-6COMORN 1 +3STORE -3LONGC271
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3863	D:6BIRCHWD-6COMORN 1 +3STORE -3LONGC271
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3863	D:6BIRCHWD-6COMORN 1 +3STORE -3LONGC271
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3863	D:6BIRCHWD-6COMORN 1 +3STORE -3LONGC271
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3863	D:6BIRCHWD-6COMORN 1 +3STORE -3LONGC271
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3864	D:6BIRCHWD-6COMORN 1 +3STORE -3VA BCH 1
314131	6ARNOLDS	230.0	345	354	0.8891	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3864	D:6BIRCHWD-6COMORN 1 +3STORE -3VA BCH 1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3864	D:6BIRCHWD-6COMORN 1 +3STORE -3VA BCH 1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3864	D:6BIRCHWD-6COMORN 1 +3STORE -3VA BCH 1
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3864	D:6BIRCHWD-6COMORN 1 +3STORE -3VA BCH 1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3864	D:6BIRCHWD-6COMORN 1 +3STORE -3VA BCH 1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3864	D:6BIRCHWD-6COMORN 1 +3STORE -3VA BCH 1
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3865	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3BURTN671
314131	6ARNOLDS	230.0	345	354	0.8891	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3865	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3BURTN671
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3865	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3BURTN671
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3865	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3BURTN671
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3865	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3BURTN671
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3865	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3BURTN671
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3865	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3BURTN671
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3866	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3LONGC271
314131	6ARNOLDS	230.0	345	354	0.8891	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3866	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3LONGC271
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3866	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3LONGC271
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3866	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3LONGC271
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3866	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3LONGC271
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3866	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3LONGC271
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3866	D:6BIRCHWD-6COMORN 1 +3BAYSIDE-3LONGC271
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3867	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3GOSFORT1
314131	6ARNOLDS	230.0	345	354	0.8891	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3867	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3GOSFORT1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3867	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3GOSFORT1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3867	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3GOSFORT1
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3867	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3GOSFORT1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3867	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3GOSFORT1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3867	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3GOSFORT1
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3868	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3REEVES 1
314131	6ARNOLDS	230.0	345	354	0.8891	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3868	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3REEVES 1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3868	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3REEVES 1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3868	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3REEVES 1
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3868	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3REEVES 1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3868	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3REEVES 1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3868	D:6BIRCHWD-6COMORN 1 +3BERKLS1-3REEVES 1
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3869	D:6BIRCHWD-6COMORN 1 +3BOWERS -3DEEPCB71

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3869	D:6BIRCHWD-6COMORN 1 +3BOWERS -3DEEPC871
314139	GOAKGROV	230.0	345	354	0.8978	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3869	D:6BIRCHWD-6COMORN 1 +3BOWERS -3DEEPC871
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9457	1.0461	LD	3869	D:6BIRCHWD-6COMORN 1 +3BOWERS -3DEEPC871
314182	6BONECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3869	D:6BIRCHWD-6COMORN 1 +3BOWERS -3DEEPC871
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3869	D:6BIRCHWD-6COMORN 1 +3BOWERS -3DEEPC871
314190	6WESTMOR	230.0	345	354	0.9031	0.9844	0.9300	1.0700	0.9400	1.0356	LD	3869	D:6BIRCHWD-6COMORN 1 +3BOWERS -3DEEPC871
314131	GARNOLDS	230.0	345	354	0.8890	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3870	D:6BIRCHWD-6COMORN 1 +3BOWERS -3HODGE F1
314139	GOAKGROV	230.0	345	354	0.8977	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3870	D:6BIRCHWD-6COMORN 1 +3BOWERS -3HODGE F1
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3870	D:6BIRCHWD-6COMORN 1 +3BOWERS -3HODGE F1
314182	6BONECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3870	D:6BIRCHWD-6COMORN 1 +3BOWERS -3HODGE F1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3870	D:6BIRCHWD-6COMORN 1 +3BOWERS -3HODGE F1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3870	D:6BIRCHWD-6COMORN 1 +3BOWERS -3HODGE F1
314131	GARNOLDS	230.0	345	354	0.8892	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3871	D:6BIRCHWD-6COMORN 1 +6BOWERS -6CHRHIND1
314139	GOAKGROV	230.0	345	354	0.8978	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3871	D:6BIRCHWD-6COMORN 1 +6BOWERS -6CHRHIND1
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3871	D:6BIRCHWD-6COMORN 1 +6BOWERS -6CHRHIND1
314182	6BONECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3871	D:6BIRCHWD-6COMORN 1 +6BOWERS -6CHRHIND1
314183	6SANDERS	230.0	345	354	0.9065	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3871	D:6BIRCHWD-6COMORN 1 +6BOWERS -6CHRHIND1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3871	D:6BIRCHWD-6COMORN 1 +6BOWERS -6CHRHIND1
314131	GARNOLDS	230.0	345	354	0.8890	0.9954	0.9300	1.0700	0.9400	1.0389	LD	3872	D:6BIRCHWD-6COMORN 1 +6BOWERS -6YADKIN 1
314139	GOAKGROV	230.0	345	354	0.8977	0.9678	0.9300	1.0700	0.9457	1.0452	LD	3872	D:6BIRCHWD-6COMORN 1 +6BOWERS -6YADKIN 1
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9384	1.0372	LD	3872	D:6BIRCHWD-6COMORN 1 +6BOWERS -6YADKIN 1
314182	6BONECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3872	D:6BIRCHWD-6COMORN 1 +6BOWERS -6YADKIN 1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3872	D:6BIRCHWD-6COMORN 1 +6BOWERS -6YADKIN 1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3872	D:6BIRCHWD-6COMORN 1 +6BOWERS -6YADKIN 1
314131	GARNOLDS	230.0	345	354	0.8892	0.9954	0.9300	1.0700	0.9400	1.0389	LD	3873	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS671
314139	GOAKGROV	230.0	345	354	0.8977	0.9678	0.9300	1.0700	0.9457	1.0452	LD	3873	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS671
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9384	1.0372	LD	3873	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS671
314182	6BONECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3873	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS671
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3873	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS671
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3873	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS671
314131	GARNOLDS	230.0	345	354	0.8890	0.9954	0.9300	1.0700	0.9400	1.0389	LD	3874	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS271
314139	GOAKGROV	230.0	345	354	0.8977	0.9678	0.9300	1.0700	0.9457	1.0452	LD	3874	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS271
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9384	1.0372	LD	3874	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS271
314182	6BONECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3874	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS271
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3874	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS271
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3874	D:6BIRCHWD-6COMORN 1 +3BURTN67-3DAVIS271
314131	GARNOLDS	230.0	345	354	0.8895	0.9954	0.9300	1.0700	0.9400	1.0389	LD	3875	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CMN GAS1
314139	GOAKGROV	230.0	345	354	0.8982	0.9678	0.9300	1.0700	0.9384	1.0372	LD	3875	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CMN GAS1
314175	6COMORN	230.0	345	354	0.8886	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3875	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CMN GAS1
314182	6BONECK	230.0	345	354	0.9096	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3875	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CMN GAS1
314183	6SANDERS	230.0	345	354	0.9069	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3875	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CMN GAS1

PSS(nr)MUST 10.2 – Managing and Utilizing System Transmission – MON, FEB 18 2013 6:46 < UDF000.0 >
2021 SUMMER BASE CASE (ERAG/MMW/G22S11) REV. 04/02/2012
2013 LF WPRE

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3882	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3882	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3883	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
313810	6DAHLGREN	230.0	345	354	0.8899	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3883	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3883	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3883	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314175	6COMORN	230.0	345	354	0.8901	0.9863	0.9300	1.0700	0.9352	1.0337	LD	3883	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3883	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3883	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
313810	6DAHLGREN	230.0	345	354	0.8899	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3884	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3884	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3884	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314175	6COMORN	230.0	345	354	0.8901	0.9863	0.9300	1.0700	0.9352	1.0337	LD	3884	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3884	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3884	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
313810	6DAHLGREN	230.0	345	354	0.8899	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3885	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3885	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3885	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314175	6COMORN	230.0	345	354	0.8901	0.9863	0.9300	1.0700	0.9352	1.0337	LD	3885	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3885	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3885	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
313810	6DAHLGREN	230.0	345	354	0.8899	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3886	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3886	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3886	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314175	6COMORN	230.0	345	354	0.8901	0.9863	0.9300	1.0700	0.9352	1.0337	LD	3886	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3886	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3886	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
313810	6DAHLGREN	230.0	345	354	0.8899	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3887	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3887	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3887	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314175	6COMORN	230.0	345	354	0.8901	0.9863	0.9300	1.0700	0.9352	1.0337	LD	3887	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3887	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3887	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
313810	6DAHLGREN	230.0	345	354	0.8899	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3888	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3888	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3888	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314175	6COMORN	230.0	345	354	0.8901	0.9863	0.9300	1.0700	0.9352	1.0337	LD	3888	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3888	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3888	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
313810	6DAHLGREN	230.0	345	354	0.8899	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3889	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3889	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3889	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314175	6COMORN	230.0	345	354	0.8901	0.9863	0.9300	1.0700	0.9352	1.0337	LD	3889	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3889	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3889	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
313810	6DAHLGREN	230.0	345	354	0.8899	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3889	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3889	D:6BIRCHWD-6COMORN 1 +3CHESAPK-3CHESPTX1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314139	60ARGOV	230.0	345	354	0.8960	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3889	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6HARBORV1
314175	6COMORN	230.0	345	354	0.8893	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3889	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6HARBORV1
314182	6NORNECK	230.0	345	354	0.9084	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3889	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6HARBORV1
314183	6SANDERS	230.0	345	354	0.9067	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3889	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6HARBORV1
314190	6WESTMOR	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3889	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6HARBORV1
313810	60AHLGREN	230.0	345	354	0.8885	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3890	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6LK KINGI
314131	6ARNOLDS	230.0	345	354	0.8876	0.9854	0.9300	1.0700	0.9457	1.0452	LD	3890	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6LK KINGI
314139	60ARGOV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3890	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6LK KINGI
314175	6COMORN	230.0	345	354	0.8875	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3890	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6LK KINGI
314182	6NORNECK	230.0	345	354	0.9059	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3890	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6LK KINGI
314183	6SANDERS	230.0	345	354	0.9026	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3890	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6LK KINGI
313810	60AHLGREN	230.0	345	354	0.8890	0.9863	0.9300	1.0700	0.9370	1.0389	LD	3891	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9854	0.9300	1.0700	0.9400	1.0356	LD	3891	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT1
314139	60ARGOV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3891	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT1
314175	6COMORN	230.0	345	354	0.8882	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3891	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT1
314182	6NORNECK	230.0	345	354	0.9021	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3891	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT1
314183	6SANDERS	230.0	345	354	0.9044	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3891	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT1
313810	60AHLGREN	230.0	345	354	0.8890	0.9863	0.9300	1.0700	0.9370	1.0389	LD	3892	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT2
314131	6ARNOLDS	230.0	345	354	0.8877	0.9854	0.9300	1.0700	0.9400	1.0356	LD	3892	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT2
314139	60ARGOV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3892	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT2
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3892	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT2
314182	6NORNECK	230.0	345	354	0.9021	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3892	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT2
314183	6SANDERS	230.0	345	354	0.9044	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3892	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6SEWLSPT2
313810	60AHLGREN	230.0	345	354	0.8888	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3893	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6CHRH 11
314131	6ARNOLDS	230.0	345	354	0.8879	0.9854	0.9300	1.0700	0.9457	1.0452	LD	3893	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6CHRH 11
314139	60ARGOV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3893	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6CHRH 11
314175	6COMORN	230.0	345	354	0.8879	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3893	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6CHRH 11
314182	6NORNECK	230.0	345	354	0.9090	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3893	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6CHRH 11
314183	6SANDERS	230.0	345	354	0.9062	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3893	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6CHRH 11
314190	6WESTMOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3893	D:6BIRCHWD-6COMORN 1 +6CHRHLD-6CHRH 11
313810	60AHLGREN	230.0	345	354	0.8895	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3894	D:6BIRCHWD-6COMORN 1 +3CMN GAS-3GRASFLO1
314131	6ARNOLDS	230.0	345	354	0.8886	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3894	D:6BIRCHWD-6COMORN 1 +3CMN GAS-3GRASFLO1
314139	60ARGOV	230.0	345	354	0.8882	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3894	D:6BIRCHWD-6COMORN 1 +3CMN GAS-3GRASFLO1
314175	6COMORN	230.0	345	354	0.8886	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3894	D:6BIRCHWD-6COMORN 1 +3CMN GAS-3GRASFLO1
314182	6NORNECK	230.0	345	354	0.9096	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3894	D:6BIRCHWD-6COMORN 1 +3CMN GAS-3GRASFLO1
314183	6SANDERS	230.0	345	354	0.9069	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3894	D:6BIRCHWD-6COMORN 1 +3CMN GAS-3GRASFLO1
314190	6WESTMOR	230.0	345	354	0.9036	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3894	D:6BIRCHWD-6COMORN 1 +3CMN GAS-3GRASFLO1
313810	60AHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3895	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3REEVES 1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3895	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3REEVES 1
314139	60ARGOV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3895	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3REEVES 1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3895	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3REEVES 1
314182	6NORNECK	230.0	345	354	0.9021	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3895	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3REEVES 1
314183	6SANDERS	230.0	345	354	0.9044	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3895	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3REEVES 1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3895	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3REEVES 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRaise	Viol	Ncon	Contingency Description
313810	GDHILGREN	230.0	345	354	0.8995	0.9894	0.9300	1.0700	0.9400	1.0389		3896	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3SHEA 1
314131	GARNOLDS	230.0	345	354	0.8866	0.9954	0.9300	1.0700	0.9457	1.0452		3896	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3SHEA 1
314139	GOARGROV	230.0	345	354	0.8982	0.9878	0.9300	1.0700	0.9384	1.0372		3896	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3SHEA 1
314175	GCORN	230.0	345	354	0.8866	0.9963	0.9300	1.0700	0.9465	1.0461		3896	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3SHEA 1
314182	GNORNECK	230.0	345	354	0.9097	0.9844	0.9300	1.0700	0.9352	1.0337		3896	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3SHEA 1
314183	GSANDERS	230.0	345	354	0.9069	0.9848	0.9300	1.0700	0.9356	1.0341		3896	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3SHEA 1
314190	GWESTMOR	230.0	345	354	0.9036	0.9863	0.9300	1.0700	0.9370	1.0356		3896	D:6BIRCHWD-6COMORN 1 +3CRADOCK-3SHEA 1
313810	GDHILGREN	230.0	345	354	0.8959	0.9894	0.9300	1.0700	0.9400	1.0389		3897	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452		3897	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372		3897	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314175	GCORN	230.0	345	354	0.8866	0.9963	0.9300	1.0700	0.9465	1.0461		3897	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337		3897	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341		3897	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356		3897	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
313810	GDHILGREN	230.0	345	354	0.8890	0.9844	0.9300	1.0700	0.9400	1.0389		3898	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452		3898	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372		3898	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314175	GCORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461		3898	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337		3898	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314183	GSANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341		3898	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
314190	GWESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356		3898	D:6BIRCHWD-6COMORN 1 +3DAVIS67-3GRENWCH1
313810	GDHILGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389		3900	D:6BIRCHWD-6COMORN 1 +6DOZIER-6ELIZ R 1
314131	GARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452		3900	D:6BIRCHWD-6COMORN 1 +6DOZIER-6ELIZ R 1
314139	GOARGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372		3900	D:6BIRCHWD-6COMORN 1 +6DOZIER-6ELIZ R 1
314175	GCORN	230.0	345	354	0.8879	0.9963	0.9300	1.0700	0.9465	1.0461		3900	D:6BIRCHWD-6COMORN 1 +6DOZIER-6ELIZ R 1
314182	GNORNECK	230.0	345	354	0.9090	0.9844	0.9300	1.0700	0.9352	1.0337		3900	D:6BIRCHWD-6COMORN 1 +6DOZIER-6ELIZ R 1
314183	GSANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341		3900	D:6BIRCHWD-6COMORN 1 +6DOZIER-6ELIZ R 1
314190	GWESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356		3900	D:6BIRCHWD-6COMORN 1 +6DOZIER-6ELIZ R 1
313810	GDHILGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389		3901	D:6BIRCHWD-6COMORN 1 +6DOZIER-6GRENWCH1
314131	GARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452		3901	D:6BIRCHWD-6COMORN 1 +6DOZIER-6GRENWCH1
314139	GOARGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372		3901	D:6BIRCHWD-6COMORN 1 +6DOZIER-6GRENWCH1
314175	GCORN	230.0	345	354	0.8879	0.9963	0.9300	1.0700	0.9465	1.0461		3901	D:6BIRCHWD-6COMORN 1 +6DOZIER-6GRENWCH1
314182	GNORNECK	230.0	345	354	0.9090	0.9844	0.9300	1.0700	0.9352	1.0337		3901	D:6BIRCHWD-6COMORN 1 +6DOZIER-6GRENWCH1
314183	GSANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341		3901	D:6BIRCHWD-6COMORN 1 +6DOZIER-6GRENWCH1
314190	GWESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356		3901	D:6BIRCHWD-6COMORN 1 +6DOZIER-6GRENWCH1
313810	GDHILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389		3902	D:6BIRCHWD-6COMORN 1 +6ELIZ R-6VAUKIN 1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452		3902	D:6BIRCHWD-6COMORN 1 +6ELIZ R-6VAUKIN 1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372		3902	D:6BIRCHWD-6COMORN 1 +6ELIZ R-6VAUKIN 1
314175	GCORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461		3902	D:6BIRCHWD-6COMORN 1 +6ELIZ R-6VAUKIN 1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337		3902	D:6BIRCHWD-6COMORN 1 +6ELIZ R-6VAUKIN 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3902 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -6VADKIN 1	
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3902 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -6VADKIN 1	
313810	6DAHLGREN	230.0	345	354	0.8885	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3903 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR11	
314131	6BARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3903 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR11	
314139	6GOARGROV	230.0	345	354	0.8973	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3903 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR11	
314175	6COMORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3903 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR11	
314182	6GNORNECK	230.0	345	354	0.9087	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3903 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR11	
314183	6SANDERS	230.0	345	354	0.9060	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3903 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR11	
314190	6WESTMOR	230.0	345	354	0.9026	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3903 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR11	
313810	6DAHLGREN	230.0	345	354	0.8885	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3904 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR21	
314131	6BARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3904 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR21	
314139	6GOARGROV	230.0	345	354	0.8973	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3904 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR21	
314175	6COMORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3904 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR21	
314182	6GNORNECK	230.0	345	354	0.9087	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3904 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR21	
314183	6SANDERS	230.0	345	354	0.9060	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3904 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR21	
314190	6WESTMOR	230.0	345	354	0.9026	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3904 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR21	
313810	6DAHLGREN	230.0	345	354	0.8885	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3905 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR31	
314131	6BARNOLDS	230.0	345	354	0.8877	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3905 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR31	
314139	6GOARGROV	230.0	345	354	0.8973	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3905 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR31	
314175	6COMORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3905 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR31	
314182	6GNORNECK	230.0	345	354	0.9087	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3905 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR31	
314183	6SANDERS	230.0	345	354	0.9060	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3905 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR31	
314190	6WESTMOR	230.0	345	354	0.9027	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3905 D: 6BIRCHWD-6COMORN 1 +6ELIZ R -1ELIZAR31	
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3906 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6LANDUSTN1	
314131	6BARNOLDS	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3906 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6LANDUSTN1	
314139	6GOARGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3906 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6LANDUSTN1	
314175	6COMORN	230.0	345	354	0.8880	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3906 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6LANDUSTN1	
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3906 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6LANDUSTN1	
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3906 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6LANDUSTN1	
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3906 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6LANDUSTN1	
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3907 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6THRS2791	
314131	6BARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3907 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6THRS2791	
314139	6GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3907 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6THRS2791	
314175	6COMORN	230.0	345	354	0.8880	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3907 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6THRS2791	
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3907 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6THRS2791	
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3907 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6THRS2791	
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3907 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6THRS2791	
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3908 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6HICKORY1	
314131	6BARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3908 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6HICKORY1	
314139	6GOARGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3908 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6HICKORY1	
314175	6COMORN	230.0	345	354	0.8879	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3908 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6HICKORY1	
314182	6GNORNECK	230.0	345	354	0.9090	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3908 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6HICKORY1	
314183	6SANDERS	230.0	345	354	0.9062	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3908 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6HICKORY1	
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3908 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6HICKORY1	
313810	6DAHLGREN	230.0	345	354	0.8880	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3909 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 11	
314131	6BARNOLDS	230.0	345	354	0.8871	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3909 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 11	
314139	6GOARGROV	230.0	345	354	0.8968	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3909 D: 6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 11	

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314175	6COMORN	230.0	345	354	0.8871	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3909	D:6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 11
314182	6GNORNECK	230.0	345	354	0.9082	0.9644	0.9300	1.0700	0.9352	1.0337	LD	3909	D:6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 11
314183	6SANDERS	230.0	345	354	0.9055	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3909	D:6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 11
314190	6WESTMOR	230.0	345	354	0.9021	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3909	D:6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 11
313810	6DAHLGREN	230.0	345	354	0.8880	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3910	D:6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 21
314131	6ARNOLDS	230.0	345	354	0.8871	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3910	D:6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 21
314139	6OAKGROV	230.0	345	354	0.8868	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3910	D:6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 21
314182	6GNORNECK	230.0	345	354	0.9082	0.9644	0.9300	1.0700	0.9352	1.0337	LD	3910	D:6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 21
314183	6SANDERS	230.0	345	354	0.9055	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3910	D:6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 21
314190	6WESTMOR	230.0	345	354	0.9021	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3910	D:6BIRCHWD-6COMORN 1 +6FENTRES-6FENTR 21
313810	6DAHLGREN	230.0	345	354	0.8880	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3911	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES1
314131	6ARNOLDS	230.0	345	354	0.8871	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3911	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES1
314139	6OAKGROV	230.0	345	354	0.8878	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3911	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES1
314182	6GNORNECK	230.0	345	354	0.9089	0.9644	0.9300	1.0700	0.9352	1.0337	LD	3911	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES1
314183	6SANDERS	230.0	345	354	0.9062	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3911	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES1
314190	6WESTMOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3911	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES1
313810	6DAHLGREN	230.0	345	354	0.8877	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3912	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES2
314131	6ARNOLDS	230.0	345	354	0.8878	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3912	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES2
314139	6OAKGROV	230.0	345	354	0.8875	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3912	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES2
314182	6GNORNECK	230.0	345	354	0.9089	0.9644	0.9300	1.0700	0.9352	1.0337	LD	3912	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES2
314183	6SANDERS	230.0	345	354	0.9061	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3912	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES2
314190	6WESTMOR	230.0	345	354	0.8890	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3912	D:6BIRCHWD-6COMORN 1 +6FENTRES-8FENTRES2
314131	6ARNOLDS	230.0	345	354	0.8890	0.9954	0.9300	1.0700	0.9400	1.0452	LD	3913	D:6BIRCHWD-6COMORN 1 +3GREATBR-3HICKORY1
314139	6OAKGROV	230.0	345	354	0.8890	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3913	D:6BIRCHWD-6COMORN 1 +3GREATBR-3HICKORY1
314182	6GNORNECK	230.0	345	354	0.8880	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3913	D:6BIRCHWD-6COMORN 1 +3GREATBR-3HICKORY1
314183	6SANDERS	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3913	D:6BIRCHWD-6COMORN 1 +3GREATBR-3HICKORY1
314190	6WESTMOR	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3913	D:6BIRCHWD-6COMORN 1 +3GREATBR-3HICKORY1
313810	6DAHLGREN	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3913	D:6BIRCHWD-6COMORN 1 +3GREATBR-3HICKORY1
314131	6ARNOLDS	230.0	345	354	0.8893	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3914	D:6BIRCHWD-6COMORN 1 +3GRASFLD-3GREAT B1
314139	6OAKGROV	230.0	345	354	0.8894	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3914	D:6BIRCHWD-6COMORN 1 +3GRASFLD-3GREAT B1
314182	6GNORNECK	230.0	345	354	0.8890	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3914	D:6BIRCHWD-6COMORN 1 +3GRASFLD-3GREAT B1
314183	6SANDERS	230.0	345	354	0.8883	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3914	D:6BIRCHWD-6COMORN 1 +3GRASFLD-3GREAT B1
314190	6WESTMOR	230.0	345	354	0.9067	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3914	D:6BIRCHWD-6COMORN 1 +3GRASFLD-3GREAT B1
313810	6DAHLGREN	230.0	345	354	0.9034	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3914	D:6BIRCHWD-6COMORN 1 +3GRASFLD-3GREAT B1
314131	6ARNOLDS	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3915	D:6BIRCHWD-6COMORN 1 +6GRN RUN-6GRENWCH1
314139	6OAKGROV	230.0	345	354	0.8890	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3915	D:6BIRCHWD-6COMORN 1 +6GRN RUN-6GRENWCH1
314182	6GNORNECK	230.0	345	354	0.8977	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3915	D:6BIRCHWD-6COMORN 1 +6GRN RUN-6GRENWCH1
314183	6SANDERS	230.0	345	354	0.8990	0.9863	0.9300	1.0700	0.9465	1.0461	LD	3915	D:6BIRCHWD-6COMORN 1 +6GRN RUN-6GRENWCH1
314190	6WESTMOR	230.0	345	354	0.9021	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3915	D:6BIRCHWD-6COMORN 1 +6GRN RUN-6GRENWCH1
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3916	D:6BIRCHWD-6COMORN 1 +6GRN RUN-6LYNHAVNI

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314131	GARNOLDS	230.0	345	354	0.8891	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3916	D:6BIRCHWD-ECOMORN 1 +6GRN RUN-6LYNHAVN1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3916	D:6BIRCHWD-ECOMORN 1 +6GRN RUN-6LYNHAVN1
314175	ECOMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3916	D:6BIRCHWD-ECOMORN 1 +6GRN RUN-6LYNHAVN1
314182	GNORNECK	230.0	345	354	0.9021	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3916	D:6BIRCHWD-ECOMORN 1 +6GRN RUN-6LYNHAVN1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3916	D:6BIRCHWD-ECOMORN 1 +6GRN RUN-6LYNHAVN1
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3916	D:6BIRCHWD-ECOMORN 1 +6GRN RUN-6LYNHAVN1
313810	DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3917	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOLE S1
314131	GARNOLDS	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3917	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOLE S1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3917	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOLE S1
314175	ECOMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3917	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOLE S1
314182	GNORNECK	230.0	345	354	0.9021	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3917	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOLE S1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3917	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOLE S1
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3917	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOLE S1
313810	DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3918	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOMPEN1
314131	GARNOLDS	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3918	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOMPEN1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3918	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOMPEN1
314175	ECOMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3918	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOMPEN1
314182	GNORNECK	230.0	345	354	0.9021	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3918	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOMPEN1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3918	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOMPEN1
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3918	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3THOMPEN1
313810	DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3919	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3GRENW 11
314131	GARNOLDS	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3919	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3GRENW 11
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3919	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3GRENW 11
314175	ECOMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3919	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3GRENW 11
314182	GNORNECK	230.0	345	354	0.9021	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3919	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3GRENW 11
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3919	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3GRENW 11
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3919	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-3GRENW 11
313810	DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3920	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH1
314131	GARNOLDS	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3920	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3920	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH1
314175	ECOMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3920	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH1
314182	GNORNECK	230.0	345	354	0.9021	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3920	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3920	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH1
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3920	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH1
313810	DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3921	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH2
314131	GARNOLDS	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3921	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH2
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3921	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH2
314175	ECOMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3921	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH2
314182	GNORNECK	230.0	345	354	0.9021	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3921	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH2
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3921	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH2
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3921	D:6BIRCHWD-ECOMORN 1 +3GRENWCH-6GRENWCH2
313810	DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3922	D:6BIRCHWD-ECOMORN 1 +6GRENWCH-6REEVES 1
314131	GARNOLDS	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9457	1.0452	LD	3922	D:6BIRCHWD-ECOMORN 1 +6GRENWCH-6REEVES 1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3922	D:6BIRCHWD-ECOMORN 1 +6GRENWCH-6REEVES 1
314175	ECOMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3922	D:6BIRCHWD-ECOMORN 1 +6GRENWCH-6REEVES 1
314182	GNORNECK	230.0	345	354	0.9021	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3922	D:6BIRCHWD-ECOMORN 1 +6GRENWCH-6REEVES 1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3922	D:6BIRCHWD-ECOMORN 1 +6GRENWCH-6REEVES 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3922	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6REEVES 1
313810	GDHILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3923	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6THALIA 1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3923	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6THALIA 1
314139	GOANGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3923	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6THALIA 1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3923	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6THALIA 1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3923	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6THALIA 1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3923	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6THALIA 1
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3923	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6THALIA 1
313810	GDHILGREN	230.0	345	354	0.8881	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3924	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6GRENW 11
314131	GARNOLDS	230.0	345	354	0.8872	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3924	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6GRENW 11
314139	GOANGROV	230.0	345	354	0.8968	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3924	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6GRENW 11
314175	6COMORN	230.0	345	354	0.8871	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3924	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6GRENW 11
314182	GNORNECK	230.0	345	354	0.9083	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3924	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6GRENW 11
314183	6SANDERS	230.0	345	354	0.9055	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3924	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6GRENW 11
314190	GWESTMOR	230.0	345	354	0.9022	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3924	D:6BIRCHWD-6COMORN 1 +6GRENWCH-6GRENW 11
313810	GDHILGREN	230.0	345	354	0.8894	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3925	D:6BIRCHWD-6COMORN 1 +6HARBORV-6YADKIN 1
314131	GARNOLDS	230.0	345	354	0.8895	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3925	D:6BIRCHWD-6COMORN 1 +6HARBORV-6YADKIN 1
314139	GOANGROV	230.0	345	354	0.8981	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3925	D:6BIRCHWD-6COMORN 1 +6HARBORV-6YADKIN 1
314175	6COMORN	230.0	345	354	0.8895	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3925	D:6BIRCHWD-6COMORN 1 +6HARBORV-6YADKIN 1
314182	GNORNECK	230.0	345	354	0.9095	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3925	D:6BIRCHWD-6COMORN 1 +6HARBORV-6YADKIN 1
314183	6SANDERS	230.0	345	354	0.9068	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3925	D:6BIRCHWD-6COMORN 1 +6HARBORV-6YADKIN 1
314190	GWESTMOR	230.0	345	354	0.9034	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3925	D:6BIRCHWD-6COMORN 1 +6HARBORV-6YADKIN 1
313810	GDHILGREN	230.0	345	354	0.8894	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3926	D:6BIRCHWD-6COMORN 1 +6HARBORV-6SMITFLD1
314131	GARNOLDS	230.0	345	354	0.8885	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3926	D:6BIRCHWD-6COMORN 1 +6HARBORV-6SMITFLD1
314139	GOANGROV	230.0	345	354	0.8991	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3926	D:6BIRCHWD-6COMORN 1 +6HARBORV-6SMITFLD1
314175	6COMORN	230.0	345	354	0.8884	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3926	D:6BIRCHWD-6COMORN 1 +6HARBORV-6SMITFLD1
314182	GNORNECK	230.0	345	354	0.9095	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3926	D:6BIRCHWD-6COMORN 1 +6HARBORV-6SMITFLD1
314183	6SANDERS	230.0	345	354	0.9068	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3926	D:6BIRCHWD-6COMORN 1 +6HARBORV-6SMITFLD1
314190	GWESTMOR	230.0	345	354	0.9034	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3926	D:6BIRCHWD-6COMORN 1 +6HARBORV-6SMITFLD1
313810	GDHILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3927	D:6BIRCHWD-6COMORN 1 +3HICKORY-6HICKORY1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3927	D:6BIRCHWD-6COMORN 1 +3HICKORY-6HICKORY1
314139	GOANGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3927	D:6BIRCHWD-6COMORN 1 +3HICKORY-6HICKORY1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3927	D:6BIRCHWD-6COMORN 1 +3HICKORY-6HICKORY1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3927	D:6BIRCHWD-6COMORN 1 +3HICKORY-6HICKORY1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3927	D:6BIRCHWD-6COMORN 1 +3HICKORY-6HICKORY1
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3927	D:6BIRCHWD-6COMORN 1 +3HICKORY-6HICKORY1
313810	GDHILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3928	D:6BIRCHWD-6COMORN 1 +3IND PRK-3REEVES 1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3928	D:6BIRCHWD-6COMORN 1 +3IND PRK-3REEVES 1
314139	GOANGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3928	D:6BIRCHWD-6COMORN 1 +3IND PRK-3REEVES 1
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3928	D:6BIRCHWD-6COMORN 1 +3IND PRK-3REEVES 1
314182	GNORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3928	D:6BIRCHWD-6COMORN 1 +3IND PRK-3REEVES 1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3928	D:6BIRCHWD-6COMORN 1 +3IND PRK-3REEVES 1
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3928	D:6BIRCHWD-6COMORN 1 +3IND PRK-3REEVES 1
313810	GDHILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3929	D:6BIRCHWD-6COMORN 1 +3IND PRK-3THOLE S1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3929	D:6BIRCHWD-6COMORN 1 +3IND PRK-3THOLE S1
314139	GOANGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3929	D:6BIRCHWD-6COMORN 1 +3IND PRK-3THOLE S1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3929	D:6BIRCHWD-6COMORN 1 +3IND PRK-3THOLE S1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRaise	Viol'	Ncon	Contingency Description
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3929	D:6BTRCHWD-6COMORN 1 +31ND PRK-3THRS-6S1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3929	D:6BTRCHWD-6COMORN 1 +31ND PRK-3THRS-6S1
314190	6WESTMOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3929	D:6BTRCHWD-6COMORN 1 +31ND PRK-3THRS-6S1
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3930	D:6BTRCHWD-6COMORN 1 +31ANDSTN-3P ANNE 1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3930	D:6BTRCHWD-6COMORN 1 +31ANDSTN-3P ANNE 1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3930	D:6BTRCHWD-6COMORN 1 +31ANDSTN-3P ANNE 1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9352	1.0337	LD	3930	D:6BTRCHWD-6COMORN 1 +31ANDSTN-3P ANNE 1
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3930	D:6BTRCHWD-6COMORN 1 +31ANDSTN-3P ANNE 1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9370	1.0356	LD	3930	D:6BTRCHWD-6COMORN 1 +31ANDSTN-3P ANNE 1
314190	6WESTMOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9384	1.0372	LD	3930	D:6BTRCHWD-6COMORN 1 +31ANDSTN-3P ANNE 1
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3931	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3931	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3931	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3931	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN1
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3931	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3931	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN1
314190	6WESTMOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3931	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN1
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3932	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN2
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3932	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN2
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3932	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN2
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3932	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN2
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3932	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN2
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3932	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN2
314190	6WESTMOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3932	D:6BTRCHWD-6COMORN 1 +31ANDSTN-6LANDSTN2
313810	6DAHLGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3933	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6THRS2791
314131	6ARNOLDS	230.0	345	354	0.8883	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3933	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6THRS2791
314139	6OAKGROV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3933	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6THRS2791
314175	6COMORN	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3933	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6THRS2791
314182	6NORNECK	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3933	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6THRS2791
314183	6SANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3933	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6THRS2791
314190	6WESTMOR	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3933	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6THRS2791
313810	6DAHLGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3934	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6SUFFOLK1
314131	6ARNOLDS	230.0	345	354	0.8883	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3934	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6SUFFOLK1
314139	6OAKGROV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3934	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6SUFFOLK1
314175	6COMORN	230.0	345	354	0.8882	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3934	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6SUFFOLK1
314182	6NORNECK	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3934	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6SUFFOLK1
314183	6SANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3934	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6SUFFOLK1
314190	6WESTMOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3934	D:6BTRCHWD-6COMORN 1 +6HUNTSMN-6SUFFOLK1
313810	6DAHLGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3935	D:6BTRCHWD-6COMORN 1 +6LANDSTN-6LYNHAVN1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3935	D:6BTRCHWD-6COMORN 1 +6LANDSTN-6LYNHAVN1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3935	D:6BTRCHWD-6COMORN 1 +6LANDSTN-6LYNHAVN1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3935	D:6BTRCHWD-6COMORN 1 +6LANDSTN-6LYNHAVN1
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3935	D:6BTRCHWD-6COMORN 1 +6LANDSTN-6LYNHAVN1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3935	D:6BTRCHWD-6COMORN 1 +6LANDSTN-6LYNHAVN1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3935	D:6BTRCHWD-6COMORN 1 +6LANDSTN-6LYNHAVN1
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3936	D:6BTRCHWD-6COMORN 1 +6LANDSTN-6SUMPEY 1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3936	D:6BTRCHWD-6COMORN 1 +6LANDSTN-6SUMPEY 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Neon	Contingency Description
314139	GOARGOV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3936	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6STUMPY 1
314175	ECOMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3936	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6STUMPY 1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3936	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6STUMPY 1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3936	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6STUMPY 1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3936	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6STUMPY 1
313810	DAHLGREN	230.0	345	354	0.8891	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3937	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6W LAND 1
314131	BARNOLDS	230.0	345	354	0.8892	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3937	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6W LAND 1
314139	GOARGOV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3937	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6W LAND 1
314175	ECOMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3937	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6W LAND 1
314182	GNORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3937	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6W LAND 1
314183	GSANDERS	230.0	345	354	0.9065	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3937	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6W LAND 1
314190	WESTMOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3937	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6W LAND 1
313810	DAHLGREN	230.0	345	354	0.8885	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3938	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6LANDS 11
314131	BARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3938	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6LANDS 11
314139	GOARGOV	230.0	345	354	0.8972	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3938	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6LANDS 11
314175	ECOMORN	230.0	345	354	0.8875	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3938	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6LANDS 11
314182	GNORNECK	230.0	345	354	0.9086	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3938	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6LANDS 11
314183	GSANDERS	230.0	345	354	0.9059	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3938	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6LANDS 11
314190	WESTMOR	230.0	345	354	0.9026	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3938	D:6BIRCHWD-6COMORN 1 +6LANDSTN-6LANDS 11
313810	DAHLGREN	230.0	345	354	0.8881	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3939	D:6BIRCHWD-6COMORN 1 +3LONDONB-3PENDLTN1
314131	BARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3939	D:6BIRCHWD-6COMORN 1 +3LONDONB-3PENDLTN1
314139	GOARGOV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3939	D:6BIRCHWD-6COMORN 1 +3LONDONB-3PENDLTN1
314175	ECOMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3939	D:6BIRCHWD-6COMORN 1 +3LONDONB-3PENDLTN1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3939	D:6BIRCHWD-6COMORN 1 +3LONDONB-3PENDLTN1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3939	D:6BIRCHWD-6COMORN 1 +3LONDONB-3PENDLTN1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3939	D:6BIRCHWD-6COMORN 1 +3LONDONB-3PENDLTN1
313810	DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3940	D:6BIRCHWD-6COMORN 1 +3LONDONB-3P ANNE 1
314131	BARNOLDS	230.0	345	354	0.8890	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3940	D:6BIRCHWD-6COMORN 1 +3LONDONB-3P ANNE 1
314139	GOARGOV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3940	D:6BIRCHWD-6COMORN 1 +3LONDONB-3P ANNE 1
314175	ECOMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3940	D:6BIRCHWD-6COMORN 1 +3LONDONB-3P ANNE 1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3940	D:6BIRCHWD-6COMORN 1 +3LONDONB-3P ANNE 1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3940	D:6BIRCHWD-6COMORN 1 +3LONDONB-3P ANNE 1
314190	WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3940	D:6BIRCHWD-6COMORN 1 +3LONDONB-3P ANNE 1
313810	DAHLGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3941	D:6BIRCHWD-6COMORN 1 +6HARBORV-6CRITTON1
314131	BARNOLDS	230.0	345	354	0.8893	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3941	D:6BIRCHWD-6COMORN 1 +6HARBORV-6CRITTON1
314139	GOARGOV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3941	D:6BIRCHWD-6COMORN 1 +6HARBORV-6CRITTON1
314175	ECOMORN	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3941	D:6BIRCHWD-6COMORN 1 +6HARBORV-6CRITTON1
314182	GNORNECK	230.0	345	354	0.9094	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3941	D:6BIRCHWD-6COMORN 1 +6HARBORV-6CRITTON1
314183	GSANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3941	D:6BIRCHWD-6COMORN 1 +6HARBORV-6CRITTON1
314190	WESTMOR	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3941	D:6BIRCHWD-6COMORN 1 +6HARBORV-6CRITTON1
313810	DAHLGREN	230.0	345	354	0.8887	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3942	D:6BIRCHWD-6COMORN 1 +6LX KING-1LKINGAL
314131	BARNOLDS	230.0	345	354	0.8878	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3942	D:6BIRCHWD-6COMORN 1 +6LX KING-1LKINGAL
314139	GOARGOV	230.0	345	354	0.8975	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3942	D:6BIRCHWD-6COMORN 1 +6LX KING-1LKINGAL
314175	ECOMORN	230.0	345	354	0.8878	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3942	D:6BIRCHWD-6COMORN 1 +6LX KING-1LKINGAL
314182	GNORNECK	230.0	345	354	0.9089	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3942	D:6BIRCHWD-6COMORN 1 +6LX KING-1LKINGAL
314183	GSANDERS	230.0	345	354	0.9061	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3942	D:6BIRCHWD-6COMORN 1 +6LX KING-1LKINGAL
314190	WESTMOR	230.0	345	354	0.9028	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3942	D:6BIRCHWD-6COMORN 1 +6LX KING-1LKINGAL

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	GAHLGREN	230.0	345	354	0.8897	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3943	D:6BIRCHWD-ECOMORN 1 +6LK KING-ILKKNGB1
314131	GARNOLDS	230.0	345	354	0.8878	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3943	D:6BIRCHWD-ECOMORN 1 +6LK KING-ILKKNGB1
314139	GOARGROV	230.0	345	354	0.8878	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3943	D:6BIRCHWD-ECOMORN 1 +6LK KING-ILKKNGB1
314175	ECOMORN	230.0	345	354	0.8878	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3943	D:6BIRCHWD-ECOMORN 1 +6LK KING-ILKKNGB1
314182	GNORNECK	230.0	345	354	0.9089	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3943	D:6BIRCHWD-ECOMORN 1 +6LK KING-ILKKNGB1
314183	GSANDERS	230.0	345	354	0.9061	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3943	D:6BIRCHWD-ECOMORN 1 +6LK KING-ILKKNGB1
314190	GWESTMOR	230.0	345	354	0.9089	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3943	D:6BIRCHWD-ECOMORN 1 +6LK KING-ILKKNGB1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3944	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6VA BCH 1
314139	GOARGROV	230.0	345	354	0.8897	0.9878	0.9300	1.0700	0.9384	1.0461	LD	3944	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6VA BCH 1
314175	ECOMORN	230.0	345	354	0.8897	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3944	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6VA BCH 1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3944	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6VA BCH 1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3944	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6VA BCH 1
314190	GWESTMOR	230.0	345	354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3944	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6VA BCH 1
313810	GAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3945	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6THALIA 1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3945	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6THALIA 1
314139	GOARGROV	230.0	345	354	0.8897	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3945	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6THALIA 1
314175	ECOMORN	230.0	345	354	0.8897	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3945	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6THALIA 1
314182	GNORNECK	230.0	345	354	0.8881	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3945	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6THALIA 1
314183	GSANDERS	230.0	345	354	0.9091	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3945	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6THALIA 1
314190	GWESTMOR	230.0	345	354	0.9091	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3945	D:6BIRCHWD-ECOMORN 1 +6LYNHAVN-6THALIA 1
313810	GAHLGREN	230.0	345	354	0.8894	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3946	D:6BIRCHWD-ECOMORN 1 +3MCLAUGH-3REEVES 1
314131	GARNOLDS	230.0	345	354	0.8885	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3947	D:6BIRCHWD-ECOMORN 1 +3MCLAUGH-3REEVES 1
314139	GOARGROV	230.0	345	354	0.8881	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3947	D:6BIRCHWD-ECOMORN 1 +3MCLAUGH-3REEVES 1
314175	ECOMORN	230.0	345	354	0.8885	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3947	D:6BIRCHWD-ECOMORN 1 +3MCLAUGH-3REEVES 1
314182	GNORNECK	230.0	345	354	0.9095	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3947	D:6BIRCHWD-ECOMORN 1 +3MCLAUGH-3REEVES 1
314183	GSANDERS	230.0	345	354	0.9068	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3947	D:6BIRCHWD-ECOMORN 1 +3MCLAUGH-3REEVES 1
314190	GWESTMOR	230.0	345	354	0.9035	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3947	D:6BIRCHWD-ECOMORN 1 +3MCLAUGH-3REEVES 1
313810	GAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3948	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3TAUSSIG1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3948	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3TAUSSIG1
314139	GOARGROV	230.0	345	354	0.8897	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3948	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3TAUSSIG1
314175	ECOMORN	230.0	345	354	0.8890	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3948	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3TAUSSIG1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3948	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3TAUSSIG1
314183	GSANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3948	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3TAUSSIG1
314190	GWESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3948	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3TAUSSIG1
313810	GAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3949	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3THOLE S1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3949	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3THOLE S1
314139	GOARGROV	230.0	345	354	0.8897	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3949	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3THOLE S1
314175	ECOMORN	230.0	345	354	0.8890	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3949	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3THOLE S1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3949	D:6BIRCHWD-ECOMORN 1 +3OAKWOOD-3THOLE S1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3956	D:6BIRCHWD-6COMORN 1 +6REEVES -6RURITANI
314182	6GNORNECK	230.0	345	354	0.9021	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3956	D:6BIRCHWD-6COMORN 1 +6REEVES -6RURITANI
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3956	D:6BIRCHWD-6COMORN 1 +6REEVES -6RURITANI
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3956	D:6BIRCHWD-6COMORN 1 +6REEVES -6RURITANI
313810	6DAHLGREN	230.0	345	354	0.8881	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3957	D:6BIRCHWD-6COMORN 1 +6REEVES -6REEVE 11
314131	6ARNOLDS	230.0	345	354	0.8972	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3957	D:6BIRCHWD-6COMORN 1 +6REEVES -6REEVE 11
314139	6OAKGROV	230.0	345	354	0.8968	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3957	D:6BIRCHWD-6COMORN 1 +6REEVES -6REEVE 11
314182	6GNORNECK	230.0	345	354	0.9082	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3957	D:6BIRCHWD-6COMORN 1 +6REEVES -6REEVE 11
314183	6SANDERS	230.0	345	354	0.9055	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3957	D:6BIRCHWD-6COMORN 1 +6REEVES -6REEVE 11
314190	6WESTMOR	230.0	345	354	0.9022	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3957	D:6BIRCHWD-6COMORN 1 +6REEVES -6REEVE 11
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3958	D:6BIRCHWD-6COMORN 1 +6RURITAN-6SNORFLK1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3958	D:6BIRCHWD-6COMORN 1 +6RURITAN-6SNORFLK1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3958	D:6BIRCHWD-6COMORN 1 +6RURITAN-6SNORFLK1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3958	D:6BIRCHWD-6COMORN 1 +6RURITAN-6SNORFLK1
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3958	D:6BIRCHWD-6COMORN 1 +6RURITAN-6SNORFLK1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3958	D:6BIRCHWD-6COMORN 1 +6RURITAN-6SNORFLK1
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3958	D:6BIRCHWD-6COMORN 1 +6RURITAN-6SNORFLK1
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3959	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3TAUSSIG1
314131	6ARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3959	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3TAUSSIG1
314139	6OAKGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3959	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3TAUSSIG1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3959	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3TAUSSIG1
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3959	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3TAUSSIG1
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3959	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3TAUSSIG1
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3959	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3TAUSSIG1
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3960	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3THOLE S1
314131	6ARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3960	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3THOLE S1
314139	6OAKGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3960	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3THOLE S1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3960	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3THOLE S1
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3960	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3THOLE S1
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3960	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3THOLE S1
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3960	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-3THOLE S1
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3961	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3961	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT1
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3961	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3961	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT1
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3961	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3961	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT1
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3961	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT1
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3962	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT2
314131	6ARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3962	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT2
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3962	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT2
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3962	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT2
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3962	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT2
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3962	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT2
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3962	D:6BIRCHWD-6COMORN 1 +3SEWLSPT-6SEWLSPT2
313810	6DAHLGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3963	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRaise	Viol	Ncon	Contingency Description
314131	GARNOLDS	230.0	345	354	0.8883	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3963	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
314139	GOARGROV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3963	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
314175	6COMORN	230.0	345	354	0.8982	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3963	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
314182	GNORNECK	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3963	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
314183	6SANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3963	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
314190	6WESTMOR	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3963	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
314131	GARNOLDS	230.0	345	354	0.8893	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3964	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
314139	GOARGROV	230.0	345	354	0.8980	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3964	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
314175	6COMORN	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3964	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
314182	GNORNECK	230.0	345	354	0.9094	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3964	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
314183	6SANDERS	230.0	345	354	0.9067	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3964	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
314190	6WESTMOR	230.0	345	354	0.9034	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3964	D:6BIRCHWD-6COMORN 1 +6SEWLSPT-6NAVYS 1
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3965	D:6BIRCHWD-6COMORN 1 +6SNORFLK-6THRS2791
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3965	D:6BIRCHWD-6COMORN 1 +6SNORFLK-6THRS2791
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3965	D:6BIRCHWD-6COMORN 1 +6SNORFLK-6THRS2791
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3965	D:6BIRCHWD-6COMORN 1 +6SNORFLK-6THRS2791
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3965	D:6BIRCHWD-6COMORN 1 +6SNORFLK-6THRS2791
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3965	D:6BIRCHWD-6COMORN 1 +6SNORFLK-6THRS2791
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3965	D:6BIRCHWD-6COMORN 1 +6SNORFLK-6THRS2791
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3966	D:6BIRCHWD-6COMORN 1 +6NAVYS -6NAVYN 1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3966	D:6BIRCHWD-6COMORN 1 +6NAVYS -6NAVYN 1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3966	D:6BIRCHWD-6COMORN 1 +6NAVYS -6NAVYN 1
314175	6COMORN	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3966	D:6BIRCHWD-6COMORN 1 +6NAVYS -6NAVYN 1
314182	GNORNECK	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3966	D:6BIRCHWD-6COMORN 1 +6NAVYS -6NAVYN 1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9352	1.0337	LD	3966	D:6BIRCHWD-6COMORN 1 +6NAVYS -6NAVYN 1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3966	D:6BIRCHWD-6COMORN 1 +6NAVYS -6NAVYN 1
313810	6DAHLGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3967	D:6BIRCHWD-6COMORN 1 +6NAVYS1 -6NAVYN1 1
314131	GARNOLDS	230.0	345	354	0.8883	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3967	D:6BIRCHWD-6COMORN 1 +6NAVYS1 -6NAVYN1 1
314139	GOARGROV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3967	D:6BIRCHWD-6COMORN 1 +6NAVYS1 -6NAVYN1 1
314175	6COMORN	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3967	D:6BIRCHWD-6COMORN 1 +6NAVYS1 -6NAVYN1 1
314182	GNORNECK	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3967	D:6BIRCHWD-6COMORN 1 +6NAVYS1 -6NAVYN1 1
314183	6SANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3967	D:6BIRCHWD-6COMORN 1 +6NAVYS1 -6NAVYN1 1
314190	6WESTMOR	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3967	D:6BIRCHWD-6COMORN 1 +6NAVYS1 -6NAVYN1 1
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3968	D:6BIRCHWD-6COMORN 1 +6STUMPY -6THRS2791
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3968	D:6BIRCHWD-6COMORN 1 +6STUMPY -6THRS2791
314139	GOARGROV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3968	D:6BIRCHWD-6COMORN 1 +6STUMPY -6THRS2791
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3968	D:6BIRCHWD-6COMORN 1 +6STUMPY -6THRS2791
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3968	D:6BIRCHWD-6COMORN 1 +6STUMPY -6THRS2791
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3968	D:6BIRCHWD-6COMORN 1 +6STUMPY -6THRS2791
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3968	D:6BIRCHWD-6COMORN 1 +6STUMPY -6THRS2791
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3969	D:6BIRCHWD-6COMORN 1 +3THOLE S-3THOLE 11
314131	GARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3969	D:6BIRCHWD-6COMORN 1 +3THOLE S-3THOLE 11
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3969	D:6BIRCHWD-6COMORN 1 +3THOLE S-3THOLE 11
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3969	D:6BIRCHWD-6COMORN 1 +3THOLE S-3THOLE 11
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3969	D:6BIRCHWD-6COMORN 1 +3THOLE S-3THOLE 11
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3969	D:6BIRCHWD-6COMORN 1 +3THOLE S-3THOLE 11

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314190	WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3969	D:6BIRCHWD-6COMORN 1 +3THOLE S-3THOLE 11
313810	DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3970	D:6BIRCHWD-6COMORN 1 +6THRS279-6YADKIN 1
314131	BARNOLDS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3970	D:6BIRCHWD-6COMORN 1 +6THRS279-6YADKIN 1
314139	FOAKGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3970	D:6BIRCHWD-6COMORN 1 +6THRS279-6YADKIN 1
314175	6COMORN	230.0	345	354	0.8879	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3970	D:6BIRCHWD-6COMORN 1 +6THRS279-6YADKIN 1
314182	GNORNECK	230.0	345	354	0.9090	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3970	D:6BIRCHWD-6COMORN 1 +6THRS279-6YADKIN 1
314183	6SANDERS	230.0	345	354	0.9063	0.9863	0.9300	1.0700	0.9356	1.0341	LD	3970	D:6BIRCHWD-6COMORN 1 +6THRS279-6YADKIN 1
313810	DAHLGREN	230.0	345	354	0.8888	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3971	D:6BIRCHWD-6COMORN 1 +3VA BCH -3VA BC 11
314131	BARNOLDS	230.0	345	354	0.8879	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3971	D:6BIRCHWD-6COMORN 1 +3VA BCH -3VA BC 11
314139	FOAKGROV	230.0	345	354	0.8975	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3971	D:6BIRCHWD-6COMORN 1 +3VA BCH -3VA BC 11
314175	6COMORN	230.0	345	354	0.8878	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3971	D:6BIRCHWD-6COMORN 1 +3VA BCH -3VA BC 11
314182	GNORNECK	230.0	345	354	0.9089	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3971	D:6BIRCHWD-6COMORN 1 +3VA BCH -3VA BC 11
314183	6SANDERS	230.0	345	354	0.9062	0.9863	0.9300	1.0700	0.9356	1.0341	LD	3971	D:6BIRCHWD-6COMORN 1 +3VA BCH -3VA BC 11
314190	WESTMOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3971	D:6BIRCHWD-6COMORN 1 +3VA BCH -3VA BC 11
313810	DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3972	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 1
314131	BARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3972	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 1
314139	FOAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3972	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 1
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3972	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 1
314182	GNORNECK	230.0	345	354	0.9089	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3972	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 1
314183	6SANDERS	230.0	345	354	0.9061	0.9863	0.9300	1.0700	0.9356	1.0341	LD	3972	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 1
314190	WESTMOR	230.0	345	354	0.9028	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3973	D:6BIRCHWD-6COMORN 1 +6YADKIN -6YADKIN 1
313810	DAHLGREN	230.0	345	354	0.8887	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3973	D:6BIRCHWD-6COMORN 1 +6YADKIN -6YADKIN 1
314131	BARNOLDS	230.0	345	354	0.8878	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3973	D:6BIRCHWD-6COMORN 1 +6YADKIN -6YADKIN 1
314139	FOAKGROV	230.0	345	354	0.8974	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3974	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 1
314175	6COMORN	230.0	345	354	0.8877	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3974	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 1
314182	GNORNECK	230.0	345	354	0.9087	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3974	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 1
314183	6SANDERS	230.0	345	354	0.9061	0.9863	0.9300	1.0700	0.9356	1.0341	LD	3974	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 1
314190	WESTMOR	230.0	345	354	0.9028	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3974	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 1
313810	DAHLGREN	230.0	345	354	0.8887	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3975	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 2
314131	BARNOLDS	230.0	345	354	0.8878	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3975	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 2
314139	FOAKGROV	230.0	345	354	0.8974	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3975	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 2
314175	6COMORN	230.0	345	354	0.8877	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3975	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 2
314182	GNORNECK	230.0	345	354	0.9089	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3975	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 2
314183	6SANDERS	230.0	345	354	0.9061	0.9863	0.9300	1.0700	0.9356	1.0341	LD	3975	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 2
314190	WESTMOR	230.0	345	354	0.9028	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3975	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 2
313810	DAHLGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3976	D:6BIRCHWD-6COMORN 1 +6YADKIN -6SUFFOLKI
314131	BARNOLDS	230.0	345	354	0.8883	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3976	D:6BIRCHWD-6COMORN 1 +6YADKIN -6SUFFOLKI
314139	FOAKGROV	230.0	345	354	0.8979	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3976	D:6BIRCHWD-6COMORN 1 +6YADKIN -6SUFFOLKI
314175	6COMORN	230.0	345	354	0.8893	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3976	D:6BIRCHWD-6COMORN 1 +6YADKIN -6SUFFOLKI

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314182	6NORNECK	230.0	345	354	0.9094	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3976	D:6BIRCHWD-6COMORN 1 +6YADKIN -6SUFFOLKI
314183	6SANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3976	D:6BIRCHWD-6COMORN 1 +6YADKIN -6SUFFOLKI
314190	6WESTMOR	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3976	D:6BIRCHWD-6COMORN 1 +6YADKIN -6SUFFOLKI
313810	6DAHLGREN	230.0	345	354	0.8883	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3977	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6KINGSFOI
314131	6BARNOLDS	230.0	345	354	0.8874	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3977	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6KINGSFOI
314139	6OKARGROV	230.0	345	354	0.8970	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3977	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6KINGSFOI
314162	6NORNECK	230.0	345	354	0.9055	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3977	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6KINGSFOI
314183	6SANDERS	230.0	345	354	0.9057	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3977	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6KINGSFOI
314190	6WESTMOR	230.0	345	354	0.9024	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3977	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6KINGSFOI
313810	6DAHLGREN	230.0	345	354	0.8880	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3978	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6SURIY
314131	6BARNOLDS	230.0	345	354	0.8871	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3978	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6SURIY
314139	6OKARGROV	230.0	345	354	0.8967	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3978	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6SURIY
314175	6COMORN	230.0	345	354	0.8871	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3978	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6SURIY
314182	6NORNECK	230.0	345	354	0.9082	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3978	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6SURIY
314183	6SANDERS	230.0	345	354	0.9054	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3978	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6SURIY
314190	6WESTMOR	230.0	345	354	0.9021	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3978	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6SURIY
313810	6DAHLGREN	230.0	345	354	0.8860	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3979	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6CHCKT 11
314131	6BARNOLDS	230.0	345	354	0.8853	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3979	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6CHCKT 11
314139	6OKARGROV	230.0	345	354	0.8947	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3979	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6CHCKT 11
314175	6COMORN	230.0	345	354	0.8850	0.9963	0.9300	1.0700	0.9465	1.0461	LD	3979	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6CHCKT 11
314182	6NORNECK	230.0	345	354	0.9062	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3979	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6CHCKT 11
314183	6SANDERS	230.0	345	354	0.9035	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3979	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6CHCKT 11
314190	6WESTMOR	230.0	345	354	0.9001	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3979	D:6BIRCHWD-6COMORN 1 +6CHICKTUR-6CHCKT 11
313810	6DAHLGREN	230.0	345	354	0.8891	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3980	D:6BIRCHWD-6COMORN 1 +6CRITITDN-6SURIY
314131	6BARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3980	D:6BIRCHWD-6COMORN 1 +6CRITITDN-6SURIY

Bus #	Bus Name	KV	Area	Zone	ContVlt	BaseVlt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314139	GOARGROV	230.0		345	354	0.8958	0.9300	1.0700	0.9384	1.0372	LD	3983	D: 6BIRCHWD-6COMORN 1 + 6KINGSFO-6SUFFOLK1
314175	ECOMORN	230.0		345	354	0.8861	0.9300	1.0700	0.9465	1.0461	LD	3983	D: 6BIRCHWD-6COMORN 1 + 6KINGSFO-6SUFFOLK1
314182	GNORNECK	230.0		345	354	0.9045	0.9300	1.0700	0.9352	1.0337	LD	3983	D: 6BIRCHWD-6COMORN 1 + 6KINGSFO-6SUFFOLK1
314183	GSANDERS	230.0		345	354	0.9045	0.9300	1.0700	0.9356	1.0341	LD	3983	D: 6BIRCHWD-6COMORN 1 + 6KINGSFO-6SUFFOLK1
314190	GWESTMOR	230.0		345	354	0.9012	0.9300	1.0700	0.9370	1.0356	LD	3983	D: 6BIRCHWD-6COMORN 1 + 6KINGSFO-6SUFFOLK1
313810	GDAILGREN	230.0		345	354	0.8891	0.9300	1.0700	0.9400	1.0389	LD	3984	D: 6BIRCHWD-6COMORN 1 + 3HANDSOM-3S HAMPT1
314131	GARNOLDS	230.0		345	354	0.8882	0.9300	1.0700	0.9457	1.0452	LD	3984	D: 6BIRCHWD-6COMORN 1 + 3HANDSOM-3S HAMPT1
314139	GOARGROV	230.0		345	354	0.8876	0.9300	1.0700	0.9384	1.0372	LD	3984	D: 6BIRCHWD-6COMORN 1 + 3HANDSOM-3S HAMPT1
314175	ECOMORN	230.0		345	354	0.8861	0.9300	1.0700	0.9465	1.0461	LD	3984	D: 6BIRCHWD-6COMORN 1 + 3HANDSOM-3S HAMPT1
314182	GNORNECK	230.0		345	354	0.9092	0.9300	1.0700	0.9352	1.0337	LD	3984	D: 6BIRCHWD-6COMORN 1 + 3HANDSOM-3S HAMPT1
314183	GSANDERS	230.0		345	354	0.9065	0.9300	1.0700	0.9356	1.0341	LD	3984	D: 6BIRCHWD-6COMORN 1 + 3HANDSOM-3S HAMPT1
314190	GWESTMOR	230.0		345	354	0.9031	0.9300	1.0700	0.9370	1.0356	LD	3984	D: 6BIRCHWD-6COMORN 1 + 3HANDSOM-3S HAMPT1
313810	GDAILGREN	230.0		345	354	0.8889	0.9300	1.0700	0.9400	1.0389	LD	3985	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3SUFFOLK1
314131	GARNOLDS	230.0		345	354	0.8876	0.9300	1.0700	0.9457	1.0452	LD	3985	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3SUFFOLK1
314139	GOARGROV	230.0		345	354	0.8876	0.9300	1.0700	0.9384	1.0372	LD	3985	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3SUFFOLK1
314175	ECOMORN	230.0		345	354	0.8879	0.9300	1.0700	0.9465	1.0461	LD	3985	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3SUFFOLK1
314182	GNORNECK	230.0		345	354	0.9090	0.9300	1.0700	0.9352	1.0337	LD	3985	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3SUFFOLK1
314183	GSANDERS	230.0		345	354	0.9063	0.9300	1.0700	0.9356	1.0341	LD	3985	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3SUFFOLK1
314190	GWESTMOR	230.0		345	354	0.9029	0.9300	1.0700	0.9370	1.0356	LD	3985	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3SUFFOLK1
313810	GDAILGREN	230.0		345	354	0.8888	0.9300	1.0700	0.9400	1.0389	LD	3986	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3UNCAMP 1
314131	GARNOLDS	230.0		345	354	0.8879	0.9300	1.0700	0.9457	1.0452	LD	3986	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3UNCAMP 1
314139	GOARGROV	230.0		345	354	0.8879	0.9300	1.0700	0.9384	1.0372	LD	3986	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3UNCAMP 1
314175	ECOMORN	230.0		345	354	0.8875	0.9300	1.0700	0.9465	1.0461	LD	3986	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3UNCAMP 1
314182	GNORNECK	230.0		345	354	0.9089	0.9300	1.0700	0.9352	1.0337	LD	3986	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3UNCAMP 1
314183	GSANDERS	230.0		345	354	0.9062	0.9300	1.0700	0.9356	1.0341	LD	3986	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3UNCAMP 1
314190	GWESTMOR	230.0		345	354	0.9029	0.9300	1.0700	0.9370	1.0356	LD	3986	D: 6BIRCHWD-6COMORN 1 + 3HOLLAND-3UNCAMP 1
313810	GDAILGREN	230.0		345	354	0.8890	0.9300	1.0700	0.9400	1.0389	LD	3987	D: 6BIRCHWD-6COMORN 1 + 3IVOR106-30AKRI231
314131	GARNOLDS	230.0		345	354	0.8891	0.9300	1.0700	0.9457	1.0452	LD	3987	D: 6BIRCHWD-6COMORN 1 + 3IVOR106-30AKRI231
314139	GOARGROV	230.0		345	354	0.8877	0.9300	1.0700	0.9384	1.0372	LD	3987	D: 6BIRCHWD-6COMORN 1 + 3IVOR106-30AKRI231
314175	ECOMORN	230.0		345	354	0.8891	0.9300	1.0700	0.9465	1.0461	LD	3987	D: 6BIRCHWD-6COMORN 1 + 3IVOR106-30AKRI231
314182	GNORNECK	230.0		345	354	0.9091	0.9300	1.0700	0.9352	1.0337	LD	3987	D: 6BIRCHWD-6COMORN 1 + 3IVOR106-30AKRI231
314183	GSANDERS	230.0		345	354	0.9064	0.9300	1.0700	0.9356	1.0341	LD	3987	D: 6BIRCHWD-6COMORN 1 + 3IVOR106-30AKRI231
314190	GWESTMOR	230.0		345	354	0.9031	0.9300	1.0700	0.9370	1.0356	LD	3987	D: 6BIRCHWD-6COMORN 1 + 3IVOR106-30AKRI231
313810	GDAILGREN	230.0		345	354	0.8891	0.9300	1.0700	0.9400	1.0389	LD	3988	D: 6BIRCHWD-6COMORN 1 + 3MYRTLE -3WINDSOR1
314131	GARNOLDS	230.0		345	354	0.8892	0.9300	1.0700	0.9457	1.0452	LD	3988	D: 6BIRCHWD-6COMORN 1 + 3MYRTLE -3WINDSOR1
314139	GOARGROV	230.0		345	354	0.8878	0.9300	1.0700	0.9384	1.0372	LD	3988	D: 6BIRCHWD-6COMORN 1 + 3MYRTLE -3WINDSOR1
314175	ECOMORN	230.0		345	354	0.8891	0.9300	1.0700	0.9465	1.0461	LD	3988	D: 6BIRCHWD-6COMORN 1 + 3MYRTLE -3WINDSOR1
314182	GNORNECK	230.0		345	354	0.9092	0.9300	1.0700	0.9352	1.0337	LD	3988	D: 6BIRCHWD-6COMORN 1 + 3MYRTLE -3WINDSOR1
314183	GSANDERS	230.0		345	354	0.9065	0.9300	1.0700	0.9356	1.0341	LD	3988	D: 6BIRCHWD-6COMORN 1 + 3MYRTLE -3WINDSOR1
314190	GWESTMOR	230.0		345	354	0.9031	0.9300	1.0700	0.9370	1.0356	LD	3988	D: 6BIRCHWD-6COMORN 1 + 3MYRTLE -3WINDSOR1
313810	GDAILGREN	230.0		345	354	0.8891	0.9300	1.0700	0.9400	1.0389	LD	3989	D: 6BIRCHWD-6COMORN 1 + 30AKRI23-3SUFFCAP1
314131	GARNOLDS	230.0		345	354	0.8891	0.9300	1.0700	0.9457	1.0452	LD	3989	D: 6BIRCHWD-6COMORN 1 + 30AKRI23-3SUFFCAP1
314139	GOARGROV	230.0		345	354	0.8878	0.9300	1.0700	0.9384	1.0372	LD	3989	D: 6BIRCHWD-6COMORN 1 + 30AKRI23-3SUFFCAP1
314175	ECOMORN	230.0		345	354	0.8891	0.9300	1.0700	0.9465	1.0461	LD	3989	D: 6BIRCHWD-6COMORN 1 + 30AKRI23-3SUFFCAP1
314182	GNORNECK	230.0		345	354	0.9092	0.9300	1.0700	0.9352	1.0337	LD	3989	D: 6BIRCHWD-6COMORN 1 + 30AKRI23-3SUFFCAP1
314183	GSANDERS	230.0		345	354	0.9064	0.9300	1.0700	0.9356	1.0341	LD	3989	D: 6BIRCHWD-6COMORN 1 + 30AKRI23-3SUFFCAP1
314190	GWESTMOR	230.0		345	354	0.9031	0.9300	1.0700	0.9370	1.0356	LD	3989	D: 6BIRCHWD-6COMORN 1 + 30AKRI23-3SUFFCAP1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.8894	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3990	D:6BIRCHWD-6COMORN 1 +6SMITFLD-6SUNRY 1
314131	6ARNOLDS	230.0	345	354	0.8885	0.9885	0.9300	1.0700	0.9457	1.0452	LD	3990	D:6BIRCHWD-6COMORN 1 +6SMITFLD-6SUNRY 1
314139	6OANGROV	230.0	345	354	0.8881	0.9881	0.9300	1.0700	0.9384	1.0461	LD	3990	D:6BIRCHWD-6COMORN 1 +6SMITFLD-6SUNRY 1
314175	6COMORN	230.0	345	354	0.8884	0.9884	0.9300	1.0700	0.9465	1.0461	LD	3990	D:6BIRCHWD-6COMORN 1 +6SMITFLD-6SUNRY 1
314182	6NORNECK	230.0	345	354	0.9095	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3990	D:6BIRCHWD-6COMORN 1 +6SMITFLD-6SUNRY 1
314183	6SANDERS	230.0	345	354	0.9067	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3990	D:6BIRCHWD-6COMORN 1 +6SMITFLD-6SUNRY 1
314190	6WESTHOR	230.0	345	354	0.9054	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3990	D:6BIRCHWD-6COMORN 1 +6SMITFLD-6SUNRY 1
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3991	D:6BIRCHWD-6COMORN 1 +3S HAMPT-3WATKINS1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9884	0.9300	1.0700	0.9457	1.0452	LD	3991	D:6BIRCHWD-6COMORN 1 +3S HAMPT-3WATKINS1
314139	6OANGROV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3991	D:6BIRCHWD-6COMORN 1 +3S HAMPT-3WATKINS1
314175	6COMORN	230.0	345	354	0.8880	0.9883	0.9300	1.0700	0.9465	1.0461	LD	3991	D:6BIRCHWD-6COMORN 1 +3S HAMPT-3WATKINS1
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3991	D:6BIRCHWD-6COMORN 1 +3S HAMPT-3WATKINS1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3991	D:6BIRCHWD-6COMORN 1 +3S HAMPT-3WATKINS1
314190	6WESTHOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3991	D:6BIRCHWD-6COMORN 1 +3S HAMPT-3WATKINS1
313810	6DAHLGREN	230.0	345	354	0.8888	0.9884	0.9300	1.0700	0.9400	1.0389	LD	3992	D:6BIRCHWD-6COMORN 1 +3S HAMPT-1SHAMPT11
314131	6ARNOLDS	230.0	345	354	0.8879	0.9884	0.9300	1.0700	0.9457	1.0452	LD	3992	D:6BIRCHWD-6COMORN 1 +3S HAMPT-1SHAMPT11
314139	6OANGROV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3992	D:6BIRCHWD-6COMORN 1 +3S HAMPT-1SHAMPT11
314175	6COMORN	230.0	345	354	0.8879	0.9883	0.9300	1.0700	0.9465	1.0461	LD	3992	D:6BIRCHWD-6COMORN 1 +3S HAMPT-1SHAMPT11
314182	6NORNECK	230.0	345	354	0.9079	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3992	D:6BIRCHWD-6COMORN 1 +3S HAMPT-1SHAMPT11
314183	6SANDERS	230.0	345	354	0.9050	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3992	D:6BIRCHWD-6COMORN 1 +3S HAMPT-1SHAMPT11
314190	6WESTHOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3992	D:6BIRCHWD-6COMORN 1 +3S HAMPT-1SHAMPT11
313810	6DAHLGREN	230.0	345	354	0.8880	0.9884	0.9300	1.0700	0.9400	1.0389	LD	3993	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFOLK21
314131	6ARNOLDS	230.0	345	354	0.8880	0.9884	0.9300	1.0700	0.9457	1.0452	LD	3993	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFOLK21
314139	6OANGROV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3993	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFOLK21
314175	6COMORN	230.0	345	354	0.8879	0.9883	0.9300	1.0700	0.9465	1.0461	LD	3993	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFOLK21
314182	6NORNECK	230.0	345	354	0.9090	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3993	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFOLK21
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3993	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFOLK21
314190	6WESTHOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3993	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFOLK21
313810	6DAHLGREN	230.0	345	354	0.8889	0.9884	0.9300	1.0700	0.9400	1.0389	LD	3994	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFFC 11
314131	6ARNOLDS	230.0	345	354	0.8879	0.9884	0.9300	1.0700	0.9457	1.0452	LD	3994	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFFC 11
314139	6OANGROV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3994	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFFC 11
314175	6COMORN	230.0	345	354	0.8879	0.9883	0.9300	1.0700	0.9465	1.0461	LD	3994	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFFC 11
314182	6NORNECK	230.0	345	354	0.9090	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3994	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFFC 11
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3994	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFFC 11
314190	6WESTHOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3994	D:6BIRCHWD-6COMORN 1 +3SUFFCAR-3SUFFFC 11
313810	6DAHLGREN	230.0	345	354	0.8889	0.9884	0.9300	1.0700	0.9400	1.0389	LD	3995	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-3SUFFFC 11
314131	6ARNOLDS	230.0	345	354	0.8879	0.9884	0.9300	1.0700	0.9457	1.0452	LD	3995	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-3SUFFFC 11
314139	6OANGROV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3995	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-3SUFFFC 11
314175	6COMORN	230.0	345	354	0.8879	0.9883	0.9300	1.0700	0.9465	1.0461	LD	3995	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-3SUFFFC 11
314182	6NORNECK	230.0	345	354	0.9090	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3995	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-3SUFFFC 11
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3995	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-3SUFFFC 11
314190	6WESTHOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3995	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-3SUFFFC 11
313810	6DAHLGREN	230.0	345	354	0.8890	0.9884	0.9300	1.0700	0.9400	1.0389	LD	3996	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9884	0.9300	1.0700	0.9457	1.0452	LD	3996	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK1
314139	6OANGROV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3996	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK1
314175	6COMORN	230.0	345	354	0.8880	0.9883	0.9300	1.0700	0.9465	1.0461	LD	3996	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK1
314182	6NORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	3996	D:6BIRCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	3996	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK1
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3996	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK1
314180	GDHILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3997	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK2
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3997	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK2
314139	GOARGROV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3997	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK2
314175	GCORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9352	1.0461	LD	3997	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK2
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3997	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK2
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3997	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK2
314180	GDHILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3998	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK3
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3998	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK3
314139	GOARGROV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3998	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK3
314175	GCORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9352	1.0461	LD	3998	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK3
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9356	1.0341	LD	3998	D: 6B1RCHWD-6COMORN 1 +3SUFFOLK-6SUFFOLK3
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	3999	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK1
314180	GDHILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	3999	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK1
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	3999	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK1
314139	GOARGROV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	3999	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK1
314175	GCORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9352	1.0461	LD	4000	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9356	1.0341	LD	4000	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4000	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314180	GDHILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4001	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4001	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314139	GOARGROV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4001	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314175	GCORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9352	1.0461	LD	4001	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9356	1.0341	LD	4001	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4002	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314180	GDHILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4002	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4002	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314139	GOARGROV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4002	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314175	GCORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9352	1.0461	LD	4002	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9356	1.0341	LD	4002	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4003	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314180	GDHILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4003	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4003	D: 6B1RCHWD-6COMORN 1 +6SUFFOLK-8SUFFOLK2

Bus #	Bus Name	KV	Area	Zone	ContVlt	BaseVlt	LowLimit	UpplLimit	VoltDrop	VoltBise	Viol	Ncon	Contingency Description
314139	GOARGOV	230.0	345	354	0.8968	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4003	D:6BIRCHWD-6COMORN 1 +6SURY -6GRAVELB1
314175	6COMORN	230.0	345	354	0.8871	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4003	D:6BIRCHWD-6COMORN 1 +6SURY -6GRAVELB1
314182	GNORNECK	230.0	345	354	0.9085	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4003	D:6BIRCHWD-6COMORN 1 +6SURY -6GRAVELB1
314183	6SANDERS	230.0	345	354	0.9055	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4003	D:6BIRCHWD-6COMORN 1 +6SURY -6GRAVELB1
314190	6WESTMOR	230.0	345	354	0.9022	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4003	D:6BIRCHWD-6COMORN 1 +6SURY -6GRAVELB1
313810	6DAHLGREN	230.0	345	354	0.8900	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4004	D:6BIRCHWD-6COMORN 1 +6SURY -1SURY 11
314131	6ARNOLDS	230.0	345	354	0.8791	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4004	D:6BIRCHWD-6COMORN 1 +6SURY -1SURY 11
314175	6COMORN	230.0	345	354	0.8790	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4004	D:6BIRCHWD-6COMORN 1 +6SURY -1SURY 11
314182	GNORNECK	230.0	345	354	0.9005	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4004	D:6BIRCHWD-6COMORN 1 +6SURY -1SURY 11
314183	6SANDERS	230.0	345	354	0.8977	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4004	D:6BIRCHWD-6COMORN 1 +6SURY -1SURY 11
314190	6WESTMOR	230.0	345	354	0.8943	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4004	D:6BIRCHWD-6COMORN 1 +6SURY -1SURY 11
313810	6DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4005	D:6BIRCHWD-6COMORN 1 +3UNCAMP -3UNCAMP 11
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4005	D:6BIRCHWD-6COMORN 1 +3UNCAMP -3UNCAMP 11
314175	6COMORN	230.0	345	354	0.8879	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4005	D:6BIRCHWD-6COMORN 1 +3UNCAMP -3UNCAMP 11
314182	GNORNECK	230.0	345	354	0.9090	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4005	D:6BIRCHWD-6COMORN 1 +3UNCAMP -3UNCAMP 11
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4005	D:6BIRCHWD-6COMORN 1 +3UNCAMP -3UNCAMP 11
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4005	D:6BIRCHWD-6COMORN 1 +3UNCAMP -3UNCAMP 11
313810	6DAHLGREN	230.0	345	354	0.8880	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4006	D:6BIRCHWD-6COMORN 1 +3WATKINS-3WATKI 11
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4006	D:6BIRCHWD-6COMORN 1 +3WATKINS-3WATKI 11
314175	6COMORN	230.0	345	354	0.8879	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4006	D:6BIRCHWD-6COMORN 1 +3WATKINS-3WATKI 11
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4006	D:6BIRCHWD-6COMORN 1 +3WATKINS-3WATKI 11
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4006	D:6BIRCHWD-6COMORN 1 +3WATKINS-3WATKI 11
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4006	D:6BIRCHWD-6COMORN 1 +3WATKINS-3WATKI 11
313810	6DAHLGREN	230.0	345	354	0.8876	0.9894	0.9300	1.0700	0.9457	1.0452	LD	4007	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
314131	6ARNOLDS	230.0	345	354	0.8873	0.9954	0.9300	1.0700	0.9465	1.0461	LD	4007	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
314175	6COMORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4007	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
314182	GNORNECK	230.0	345	354	0.9087	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4007	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
314183	6SANDERS	230.0	345	354	0.9060	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4007	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
314190	6WESTMOR	230.0	345	354	0.9026	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4007	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
313810	6DAHLGREN	230.0	345	354	0.8886	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4008	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
314131	6ARNOLDS	230.0	345	354	0.8873	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4008	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
314175	6COMORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4008	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
314182	GNORNECK	230.0	345	354	0.9087	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4008	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
314183	6SANDERS	230.0	345	354	0.9060	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4008	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
314190	6WESTMOR	230.0	345	354	0.9026	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4008	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL31
313810	6DAHLGREN	230.0	345	354	0.8886	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4009	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL41
314131	6ARNOLDS	230.0	345	354	0.8873	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4009	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL41
314175	6COMORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4009	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL41
314182	GNORNECK	230.0	345	354	0.9087	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4009	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL41
314183	6SANDERS	230.0	345	354	0.9060	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4009	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL41
314190	6WESTMOR	230.0	345	354	0.9026	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4009	D:6BIRCHWD-6COMORN 1 +6GRAVELA-1GRAVEL41

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	6DAHLGREN	230.0	345	354	0.8886	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4010	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL51
311131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4010	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL51
314139	6OAKGROV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4010	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL51
314175	6COMORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4010	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL51
314182	6GNORNECK	230.0	345	354	0.9087	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4010	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL51
314183	6SANDERS	230.0	345	354	0.9060	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4010	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL51
314190	6WESTMOR	230.0	345	354	0.9026	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4010	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL51
313810	6DAHLGREN	230.0	345	354	0.8886	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4011	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL61
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4011	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL61
314139	6OAKGROV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4011	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL61
314175	6COMORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4011	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL61
314182	6GNORNECK	230.0	345	354	0.9087	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4011	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL61
314183	6SANDERS	230.0	345	354	0.9060	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4011	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL61
314190	6WESTMOR	230.0	345	354	0.9026	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4011	D:6BIRCHWD-6COMORN 1 +6GRAVELB-1GRAVEL61
313810	6DAHLGREN	230.0	345	354	0.8886	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4012	D:6BIRCHWD-6COMORN 1 +8LOUO 1-8LOUOOUN1
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4012	D:6BIRCHWD-6COMORN 1 +8LOUO 1-8LOUOOUN1
314139	6OAKGROV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4012	D:6BIRCHWD-6COMORN 1 +8LOUO 1-8LOUOOUN1
314175	6COMORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4012	D:6BIRCHWD-6COMORN 1 +8LOUO 1-8LOUOOUN1
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4012	D:6BIRCHWD-6COMORN 1 +8LOUO 1-8LOUOOUN1
314183	6SANDERS	230.0	345	354	0.9063	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4012	D:6BIRCHWD-6COMORN 1 +8LOUO 1-8LOUOOUN1
314190	6WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4012	D:6BIRCHWD-6COMORN 1 +8LOUO 1-8LOUOOUN1
313810	6DAHLGREN	230.0	345	354	0.8886	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4013	D:6BIRCHWD-6COMORN 1 +8MORRS 1-8MORRSVLL
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4013	D:6BIRCHWD-6COMORN 1 +8MORRS 1-8MORRSVLL
314139	6OAKGROV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4013	D:6BIRCHWD-6COMORN 1 +8MORRS 1-8MORRSVLL
314175	6COMORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4013	D:6BIRCHWD-6COMORN 1 +8MORRS 1-8MORRSVLL
314182	6GNORNECK	230.0	345	354	0.9089	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4013	D:6BIRCHWD-6COMORN 1 +8MORRS 1-8MORRSVLL
314183	6SANDERS	230.0	345	354	0.9062	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4013	D:6BIRCHWD-6COMORN 1 +8MORRS 1-8MORRSVLL
314190	6WESTMOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4013	D:6BIRCHWD-6COMORN 1 +8MORRS 1-8MORRSVLL
313810	6DAHLGREN	230.0	345	354	0.8886	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4014	D:6BIRCHWD-6COMORN 1 +8MT ST 1-8MT STM 1
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4014	D:6BIRCHWD-6COMORN 1 +8MT ST 1-8MT STM 1
314139	6OAKGROV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4014	D:6BIRCHWD-6COMORN 1 +8MT ST 1-8MT STM 1
314175	6COMORN	230.0	345	354	0.8876	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4014	D:6BIRCHWD-6COMORN 1 +8MT ST 1-8MT STM 1
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4014	D:6BIRCHWD-6COMORN 1 +8MT ST 1-8MT STM 1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4014	D:6BIRCHWD-6COMORN 1 +8MT ST 1-8MT STM 1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4014	D:6BIRCHWD-6COMORN 1 +8MT ST 1-8MT STM 1
313810	6DAHLGREN	230.0	345	354	0.8886	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4015	D:6BIRCHWD-6COMORN 1 +8MT ST 2-8MT STM 1
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4015	D:6BIRCHWD-6COMORN 1 +8MT ST 2-8MT STM 1
314139	6OAKGROV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4015	D:6BIRCHWD-6COMORN 1 +8MT ST 2-8MT STM 1
314175	6COMORN	230.0	345	354	0.8886	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4015	D:6BIRCHWD-6COMORN 1 +8MT ST 2-8MT STM 1
314182	6GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4015	D:6BIRCHWD-6COMORN 1 +8MT ST 2-8MT STM 1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4015	D:6BIRCHWD-6COMORN 1 +8MT ST 2-8MT STM 1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4015	D:6BIRCHWD-6COMORN 1 +8MT ST 2-8MT STM 1
313810	6DAHLGREN	230.0	345	354	0.8886	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4016	D:6BIRCHWD-6COMORN 1 +8BRISTER-8CHANCE 1
314131	6ARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4016	D:6BIRCHWD-6COMORN 1 +8BRISTER-8CHANCE 1
314139	6OAKGROV	230.0	345	354	0.8876	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4016	D:6BIRCHWD-6COMORN 1 +8BRISTER-8CHANCE 1
314175	6COMORN	230.0	345	354	0.8886	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4016	D:6BIRCHWD-6COMORN 1 +8BRISTER-8CHANCE 1
314182	6GNORNECK	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4016	D:6BIRCHWD-6COMORN 1 +8BRISTER-8CHANCE 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314183	6SANDERS	230.0	345	354	0.9065	0.9648	0.9300	1.0700	0.9356	1.0341	LD	4016	D:6BIRCHWD-6COMORN 1 +8BRISTER-8CHANCE 1
314190	6WESTMOR	230.0	345	354	0.9032	0.9663	0.9300	1.0700	0.9370	1.0356	LD	4016	D:6BIRCHWD-6COMORN 1 +8BRISTER-8CHANCE 1
313810	6DAHLGREN	230.0	345	354	0.8985	0.9694	0.9300	1.0700	0.9400	1.0389	LD	4017	D:6BIRCHWD-6COMORN 1 +8BRISTER-8MORRISVLL
314131	6ARNOLDS	230.0	345	354	0.8976	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4017	D:6BIRCHWD-6COMORN 1 +8BRISTER-8MORRISVLL
314139	6OAKGROV	230.0	345	354	0.8972	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4017	D:6BIRCHWD-6COMORN 1 +8BRISTER-8MORRISVLL
314175	6COMORN	230.0	345	354	0.8875	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4017	D:6BIRCHWD-6COMORN 1 +8BRISTER-8MORRISVLL
314182	6MORNECK	230.0	345	354	0.9086	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4017	D:6BIRCHWD-6COMORN 1 +8BRISTER-8MORRISVLL
314183	6SANDERS	230.0	345	354	0.9059	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4017	D:6BIRCHWD-6COMORN 1 +8BRISTER-8MORRISVLL
314190	6WESTMOR	230.0	345	354	0.9026	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4017	D:6BIRCHWD-6COMORN 1 +8BRISTER-8MORRISVLL
313810	6DAHLGREN	230.0	345	354	0.8981	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4018	D:6BIRCHWD-6COMORN 1 +8BRISTER-8OX
314131	6ARNOLDS	230.0	345	354	0.8981	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4018	D:6BIRCHWD-6COMORN 1 +8BRISTER-8OX
314139	6OAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4018	D:6BIRCHWD-6COMORN 1 +8BRISTER-8OX
314175	6COMORN	230.0	345	354	0.8981	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4018	D:6BIRCHWD-6COMORN 1 +8BRISTER-8OX
314182	6MORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4018	D:6BIRCHWD-6COMORN 1 +8BRISTER-8OX
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4018	D:6BIRCHWD-6COMORN 1 +8BRISTER-8OX
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4018	D:6BIRCHWD-6COMORN 1 +8BRISTER-8OX
313810	6DAHLGREN	230.0	345	354	0.8985	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4019	D:6BIRCHWD-6COMORN 1 +8BATH CO-8LEXNGTNI
314131	6ARNOLDS	230.0	345	354	0.8976	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4019	D:6BIRCHWD-6COMORN 1 +8BATH CO-8LEXNGTNI
314139	6OAKGROV	230.0	345	354	0.8972	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4019	D:6BIRCHWD-6COMORN 1 +8BATH CO-8LEXNGTNI
314175	6COMORN	230.0	345	354	0.8875	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4020	D:6BIRCHWD-6COMORN 1 +8BATH CO-8VALLEY 1
314182	6MORNECK	230.0	345	354	0.8973	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4020	D:6BIRCHWD-6COMORN 1 +8BATH CO-8VALLEY 1
314183	6SANDERS	230.0	345	354	0.9057	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4020	D:6BIRCHWD-6COMORN 1 +8BATH CO-8VALLEY 1
314190	6WESTMOR	230.0	345	354	0.9024	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4020	D:6BIRCHWD-6COMORN 1 +8BATH CO-8VALLEY 1
313810	6DAHLGREN	230.0	345	354	0.8982	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4021	D:6BIRCHWD-6COMORN 1 + B50510 BATH 3W1 1
314131	6ARNOLDS	230.0	345	354	0.8993	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4021	D:6BIRCHWD-6COMORN 1 + B50510 BATH 3W1 1
314139	6OAKGROV	230.0	345	354	0.8989	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4021	D:6BIRCHWD-6COMORN 1 + B50510 BATH 3W1 1
314175	6COMORN	230.0	345	354	0.8892	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4021	D:6BIRCHWD-6COMORN 1 + B50510 BATH 3W1 1
314182	6MORNECK	230.0	345	354	0.9075	0.9844	0.9300	1.0700	0.9356	1.0341	LD	4021	D:6BIRCHWD-6COMORN 1 + B50510 BATH 3W1 1
314183	6SANDERS	230.0	345	354	0.9042	0.9848	0.9300	1.0700	0.9370	1.0356	LD	4022	D:6BIRCHWD-6COMORN 1 + B50510 BATH 3W1 1
314190	6WESTMOR	230.0	345	354	0.8993	0.9863	0.9300	1.0700	0.9400	1.0389	LD	4022	D:6BIRCHWD-6COMORN 1 + B50510 BATH 3W1 1
313810	6DAHLGREN	230.0	345	354	0.8989	0.9894	0.9300	1.0700	0.9457	1.0452	LD	4022	D:6BIRCHWD-6COMORN 1 + B50510 BATH 3W1 1
314131	6ARNOLDS	230.0	345	354	0.8999	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4022	D:6BIRCHWD-6COMORN 1 + B50510 BATH 3W1 1
314139	6OAKGROV	230.0	345	354	0.8999	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4023	D:6BIRCHWD-6COMORN 1 + B50512 BATH 3W5 1
314175	6COMORN	230.0	345	354	0.8892	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4023	D:6BIRCHWD-6COMORN 1 + B50512 BATH 3W5 1
314182	6MORNECK	230.0	345	354	0.9075	0.9844	0.9300	1.0700	0.9356	1.0341	LD	4023	D:6BIRCHWD-6COMORN 1 + B50512 BATH 3W5 1
314183	6SANDERS	230.0	345	354	0.9075	0.9848	0.9300	1.0700	0.9370	1.0356	LD	4023	D:6BIRCHWD-6COMORN 1 + B50512 BATH 3W5 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314190	6WESTMOR	230.0	345	354	0.9042	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4023 D: 6BIRCHWD-6COMORN 1 + B50512 BATH 3W5 1	
313810	6DAHLGREN	230.0	345	354	0.8866	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4024 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8CLOVER 1	
314131	6ARNOLDS	230.0	345	354	0.8857	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4024 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8CLOVER 1	
314139	6OARGROV	230.0	345	354	0.8953	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4024 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8CLOVER 1	
314175	6COMORN	230.0	345	354	0.8856	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4024 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8CLOVER 1	
314182	6NORNECK	230.0	345	354	0.9068	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4024 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8CLOVER 1	
314183	6SANDERS	230.0	345	354	0.9041	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4024 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8CLOVER 1	
314190	6WESTMOR	230.0	345	354	0.9007	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4024 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8CLOVER 1	
313810	6DAHLGREN	230.0	345	354	0.8883	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4025 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8MDLTHANI	
314131	6ARNOLDS	230.0	345	354	0.8874	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4025 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8MDLTHANI	
314139	6OARGROV	230.0	345	354	0.8970	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4025 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8MDLTHANI	
314175	6COMORN	230.0	345	354	0.8873	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4025 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8MDLTHANI	
314182	6NORNECK	230.0	345	354	0.9076	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4025 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8MDLTHANI	
314183	6SANDERS	230.0	345	354	0.9048	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4025 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8MDLTHANI	
314190	6WESTMOR	230.0	345	354	0.9057	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4025 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8MDLTHANI	
313810	6DAHLGREN	230.0	345	354	0.8874	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4026 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8FIVEFRK1	
314131	6ARNOLDS	230.0	345	354	0.8865	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4026 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8FIVEFRK1	
314139	6OARGROV	230.0	345	354	0.8961	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4026 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8FIVEFRK1	
314175	6COMORN	230.0	345	354	0.8864	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4026 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8FIVEFRK1	
314182	6NORNECK	230.0	345	354	0.9076	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4026 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8FIVEFRK1	
314183	6SANDERS	230.0	345	354	0.9048	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4026 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8FIVEFRK1	
314190	6WESTMOR	230.0	345	354	0.9015	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4026 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8FIVEFRK1	
313810	6DAHLGREN	230.0	345	354	0.8838	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4027 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8SULPOLK1	
314131	6ARNOLDS	230.0	345	354	0.8829	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4027 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8SULPOLK1	
314139	6OARGROV	230.0	345	354	0.8926	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4027 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8SULPOLK1	
314175	6COMORN	230.0	345	354	0.8829	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4027 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8SULPOLK1	
314182	6NORNECK	230.0	345	354	0.9042	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4027 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8SULPOLK1	
314183	6SANDERS	230.0	345	354	0.9014	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4027 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8SULPOLK1	
314190	6WESTMOR	230.0	345	354	0.8980	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4027 D: 6BIRCHWD-6COMORN 1 + 8CARSON -8SULPOLK1	
313810	6DAHLGREN	230.0	345	354	0.8872	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4028 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8ELMONT 1	
314131	6ARNOLDS	230.0	345	354	0.8863	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4028 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8ELMONT 1	
314139	6OARGROV	230.0	345	354	0.8959	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4028 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8ELMONT 1	
314175	6COMORN	230.0	345	354	0.8963	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4028 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8ELMONT 1	
314182	6NORNECK	230.0	345	354	0.9074	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4028 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8ELMONT 1	
314183	6SANDERS	230.0	345	354	0.9047	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4028 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8ELMONT 1	
314190	6WESTMOR	230.0	345	354	0.9013	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4028 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8ELMONT 1	
313810	6DAHLGREN	230.0	345	354	0.8822	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4029 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8SURREY 1	
314131	6ARNOLDS	230.0	345	354	0.8813	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4029 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8SURREY 1	
314139	6OARGROV	230.0	345	354	0.8910	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4029 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8SURREY 1	
314175	6COMORN	230.0	345	354	0.8913	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4029 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8SURREY 1	
314182	6NORNECK	230.0	345	354	0.9026	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4029 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8SURREY 1	
314183	6SANDERS	230.0	345	354	0.8999	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4029 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8SURREY 1	
314190	6WESTMOR	230.0	345	354	0.8965	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4029 D: 6BIRCHWD-6COMORN 1 + 8CHICKAHM-8SURREY 1	
313810	6DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4030 D: 6BIRCHWD-6COMORN 1 + 8CLIFTON-8LOUDOUN1	
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4030 D: 6BIRCHWD-6COMORN 1 + 8CLIFTON-8LOUDOUN1	
314139	6OARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4030 D: 6BIRCHWD-6COMORN 1 + 8CLIFTON-8LOUDOUN1	
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4030 D: 6BIRCHWD-6COMORN 1 + 8CLIFTON-8LOUDOUN1	

Bus #	Bus Name	KV	Area	Zone	ContVlt	BaseVlt	LowLimit	Upplimit	VoltDrop	VoltBase	Viol	Ncon	Contingency Description
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4030	D:6BIRCHWD-6COMORN 1 +8CLIFTON-8LOUDOUN1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4030	D:6BIRCHWD-6COMORN 1 +8CLIFTON-8LOUDOUN1
314190	GWESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4030	D:6BIRCHWD-6COMORN 1 +8CLIFTON-8LOUDOUN1
313810	GAHLGREN	230.0	345	354	0.8891	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4031	D:6BIRCHWD-6COMORN 1 +8CLIFTON-8OX 1
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4031	D:6BIRCHWD-6COMORN 1 +8CLIFTON-8OX 1
314139	GOARGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4031	D:6BIRCHWD-6COMORN 1 +8CLIFTON-8OX 1
314175	COMORN	230.0	345	354	0.8882	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4032	D:6BIRCHWD-6COMORN 1 +8CHANCE -8LDYSMTN1
314182	GNORNECK	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4032	D:6BIRCHWD-6COMORN 1 +8CHANCE -8LDYSMTN1
314183	GSANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4032	D:6BIRCHWD-6COMORN 1 +8CHANCE -8LDYSMTN1
314190	GWESTMOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4032	D:6BIRCHWD-6COMORN 1 +8CHANCE -8LDYSMTN1
313810	GAHLGREN	230.0	345	354	0.8919	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4033	D:6BIRCHWD-6COMORN 1 +8DOOMS -8CUNNING1
314131	GARNOLDS	230.0	345	354	0.8910	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4033	D:6BIRCHWD-6COMORN 1 +8DOOMS -8CUNNING1
314139	GOARGROV	230.0	345	354	0.8895	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4034	D:6BIRCHWD-6COMORN 1 +8DOOMS -8LEXNGTN1
314175	COMORN	230.0	345	354	0.8886	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4034	D:6BIRCHWD-6COMORN 1 +8DOOMS -8LEXNGTN1
314182	GNORNECK	230.0	345	354	0.8982	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4034	D:6BIRCHWD-6COMORN 1 +8DOOMS -8LEXNGTN1
314183	GSANDERS	230.0	345	354	0.8985	0.9844	0.9300	1.0700	0.9465	1.0461	LD	4034	D:6BIRCHWD-6COMORN 1 +8DOOMS -8LEXNGTN1
314190	GWESTMOR	230.0	345	354	0.9096	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4034	D:6BIRCHWD-6COMORN 1 +8DOOMS -8LEXNGTN1
313810	GAHLGREN	230.0	345	354	0.9036	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4034	D:6BIRCHWD-6COMORN 1 +8DOOMS -8LEXNGTN1
314131	GARNOLDS	230.0	345	354	0.8894	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4035	D:6BIRCHWD-6COMORN 1 +8DOOMS -8VALLEY 1
314139	GOARGROV	230.0	345	354	0.8885	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4035	D:6BIRCHWD-6COMORN 1 +8DOOMS -8VALLEY 1
314175	COMORN	230.0	345	354	0.8981	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4035	D:6BIRCHWD-6COMORN 1 +8DOOMS -8VALLEY 1
314182	GNORNECK	230.0	345	354	0.8885	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4035	D:6BIRCHWD-6COMORN 1 +8DOOMS -8VALLEY 1
314183	GSANDERS	230.0	345	354	0.9096	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4035	D:6BIRCHWD-6COMORN 1 +8DOOMS -8VALLEY 1
314190	GWESTMOR	230.0	345	354	0.9068	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4035	D:6BIRCHWD-6COMORN 1 +8DOOMS -8VALLEY 1
313810	GAHLGREN	230.0	345	354	0.9039	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4036	D:6BIRCHWD-6COMORN 1 +8BELMONT -8CUNNING1
314131	GARNOLDS	230.0	345	354	0.8900	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4036	D:6BIRCHWD-6COMORN 1 +8BELMONT -8CUNNING1
314139	GOARGROV	230.0	345	354	0.8899	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4036	D:6BIRCHWD-6COMORN 1 +8BELMONT -8CUNNING1
314175	COMORN	230.0	345	354	0.8899	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4036	D:6BIRCHWD-6COMORN 1 +8BELMONT -8CUNNING1
314182	GNORNECK	230.0	345	354	0.9082	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4036	D:6BIRCHWD-6COMORN 1 +8BELMONT -8CUNNING1
314183	GSANDERS	230.0	345	354	0.9049	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4036	D:6BIRCHWD-6COMORN 1 +8BELMONT -8CUNNING1
314190	GWESTMOR	230.0	345	354	0.8862	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4037	D:6BIRCHWD-6COMORN 1 +8BELMONT -8LDYSMTN1
313810	GAHLGREN	230.0	345	354	0.8862	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4037	D:6BIRCHWD-6COMORN 1 +8BELMONT -8LDYSMTN1
314131	GARNOLDS	230.0	345	354	0.8853	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4037	D:6BIRCHWD-6COMORN 1 +8BELMONT -8LDYSMTN1
314139	GOARGROV	230.0	345	354	0.8950	0.9878	0.9300	1.0700	0.9465	1.0461	LD	4037	D:6BIRCHWD-6COMORN 1 +8BELMONT -8LDYSMTN1
314175	COMORN	230.0	345	354	0.8853	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4037	D:6BIRCHWD-6COMORN 1 +8BELMONT -8LDYSMTN1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314182	GNORNECK	230.0	345	354	0.9065	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4037	D:6B1RCHWD-6COMORN 1 +8LDYSMTH1
314183	GSANDERS	230.0	345	354	0.9037	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4037	D:6B1RCHWD-6COMORN 1 +8LDYSMTH1
314190	GWESTHOR	230.0	345	354	0.9024	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4037	D:6B1RCHWD-6COMORN 1 +8LDYSMTH1
313810	GDAILGREN	230.0	345	354	0.8878	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4038	D:6B1RCHWD-6COMORN 1 +8FENTRES-8YADKIN 1
314131	GARNOLDS	230.0	345	354	0.8869	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4038	D:6B1RCHWD-6COMORN 1 +8FENTRES-8YADKIN 1
314139	GOAKGROV	230.0	345	354	0.8966	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4038	D:6B1RCHWD-6COMORN 1 +8FENTRES-8YADKIN 1
314175	GCORN	230.0	345	354	0.8869	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4038	D:6B1RCHWD-6COMORN 1 +8FENTRES-8YADKIN 1
314182	GNORNECK	230.0	345	354	0.9080	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4038	D:6B1RCHWD-6COMORN 1 +8FENTRES-8YADKIN 1
314183	GSANDERS	230.0	345	354	0.9053	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4038	D:6B1RCHWD-6COMORN 1 +8FENTRES-8YADKIN 1
314190	GWESTHOR	230.0	345	354	0.9019	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4038	D:6B1RCHWD-6COMORN 1 +8FENTRES-8YADKIN 1
313810	GDAILGREN	230.0	345	354	0.8891	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4039	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4039	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314139	GOAKGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4039	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314175	GCORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4039	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314182	GNORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4039	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314183	GSANDERS	230.0	345	354	0.9065	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4040	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314190	GWESTHOR	230.0	345	354	0.9024	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4040	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
313810	GDAILGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4041	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4041	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314139	GOAKGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4041	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314175	GCORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4041	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314182	GNORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4041	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4041	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314190	GWESTHOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4041	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
313810	GDAILGREN	230.0	345	354	0.8891	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4042	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4042	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314139	GOAKGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4042	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314175	GCORN	230.0	345	354	0.8882	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4042	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314182	GNORNECK	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4042	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314183	GSANDERS	230.0	345	354	0.9065	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4042	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
314190	GWESTHOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4042	D:6B1RCHWD-6COMORN 1 +8CUNNING-1CUNINGAI
313810	GDAILGREN	230.0	345	354	0.8878	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4043	D:6B1RCHWD-6COMORN 1 +8LDYSMTH-8NO ANNAI
314131	GARNOLDS	230.0	345	354	0.8869	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4043	D:6B1RCHWD-6COMORN 1 +8LDYSMTH-8NO ANNAI
314139	GOAKGROV	230.0	345	354	0.8965	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4043	D:6B1RCHWD-6COMORN 1 +8LDYSMTH-8NO ANNAI
314175	GCORN	230.0	345	354	0.8868	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4043	D:6B1RCHWD-6COMORN 1 +8LDYSMTH-8NO ANNAI
314182	GNORNECK	230.0	345	354	0.9080	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4043	D:6B1RCHWD-6COMORN 1 +8LDYSMTH-8NO ANNAI
314183	GSANDERS	230.0	345	354	0.9052	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4043	D:6B1RCHWD-6COMORN 1 +8LDYSMTH-8NO ANNAI
314190	GWESTHOR	230.0	345	354	0.9019	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4043	D:6B1RCHWD-6COMORN 1 +8LDYSMTH-8NO ANNAI
313810	GDAILGREN	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4044	D:6B1RCHWD-6COMORN 1 +8LDYSMTH-8FOSSUM 1
314131	GARNOLDS	230.0	345	354	0.8883	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4044	D:6B1RCHWD-6COMORN 1 +8LDYSMTH-8FOSSUM 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314139	GOARGROV	230.0	345	354	0.8980	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4044	D: 6BIRCHWD-6COMORN 1 +8LDYSMTN-8POSSUM 1
314175	ECOMORN	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4044	D: 6BIRCHWD-6COMORN 1 +8LDYSMTN-8POSSUM 1
314182	GNORNECK	230.0	345	354	0.9094	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4044	D: 6BIRCHWD-6COMORN 1 +8LDYSMTN-8POSSUM 1
314183	GSANDERS	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4044	D: 6BIRCHWD-6COMORN 1 +8LDYSMTN-8POSSUM 1
314190	GWESTMOR	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4044	D: 6BIRCHWD-6COMORN 1 +8LDYSMTN-8POSSUM 1
313810	GDALHGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4045	D: 6BIRCHWD-6COMORN 1 +8LOLDOUN-8MORRSVIL
314131	GARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4045	D: 6BIRCHWD-6COMORN 1 +8LOLDOUN-8MORRSVIL
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4045	D: 6BIRCHWD-6COMORN 1 +8LOLDOUN-8MORRSVIL
314175	ECOMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4045	D: 6BIRCHWD-6COMORN 1 +8LOLDOUN-8MORRSVIL
314182	GNORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4045	D: 6BIRCHWD-6COMORN 1 +8LOLDOUN-8MORRSVIL
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4045	D: 6BIRCHWD-6COMORN 1 +8LOLDOUN-8MORRSVIL
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4045	D: 6BIRCHWD-6COMORN 1 +8LOLDOUN-8MORRSVIL
313810	GDALHGREN	230.0	345	354	0.8891	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4046	D: 6BIRCHWD-6COMORN 1 +8LOLDOUN-8MORRSVIL
314131	GARNOLDS	230.0	345	354	0.8892	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4046	D: 6BIRCHWD-6COMORN 1 +8LOLDOUN-8MORRSVIL
314139	GOARGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4046	D: 6BIRCHWD-6COMORN 1 +8LOLDOUN-8MORRSVIL
314175	ECOMORN	230.0	345	354	0.8873	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4046	D: 6BIRCHWD-6COMORN 1 +8LOLDOUN-8MORRSVIL
314182	GNORNECK	230.0	345	354	0.9085	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4047	D: 6BIRCHWD-6COMORN 1 +8MOLTHAN-8NO ANNAL
314183	GSANDERS	230.0	345	354	0.9057	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4047	D: 6BIRCHWD-6COMORN 1 +8MOLTHAN-8NO ANNAL
314190	GWESTMOR	230.0	345	354	0.9024	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4047	D: 6BIRCHWD-6COMORN 1 +8MOLTHAN-8NO ANNAL
313810	GDALHGREN	230.0	345	354	0.8871	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4048	D: 6BIRCHWD-6COMORN 1 +8FIVEFRK-8SEPTA 1
314131	GARNOLDS	230.0	345	354	0.8862	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4048	D: 6BIRCHWD-6COMORN 1 +8FIVEFRK-8SEPTA 1
314139	GOARGROV	230.0	345	354	0.8959	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4048	D: 6BIRCHWD-6COMORN 1 +8FIVEFRK-8SEPTA 1
314175	ECOMORN	230.0	345	354	0.8862	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4048	D: 6BIRCHWD-6COMORN 1 +8FIVEFRK-8SEPTA 1
314182	GNORNECK	230.0	345	354	0.9073	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4048	D: 6BIRCHWD-6COMORN 1 +8FIVEFRK-8SEPTA 1
314183	GSANDERS	230.0	345	354	0.9046	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4048	D: 6BIRCHWD-6COMORN 1 +8FIVEFRK-8SEPTA 1
314190	GWESTMOR	230.0	345	354	0.9013	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4048	D: 6BIRCHWD-6COMORN 1 +8FIVEFRK-8SEPTA 1
313810	GDALHGREN	230.0	345	354	0.8891	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4049	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8NO ANNAL
314131	GARNOLDS	230.0	345	354	0.8882	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4049	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8NO ANNAL
314139	GOARGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4049	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8NO ANNAL
314175	ECOMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4049	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8NO ANNAL
314182	GNORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4049	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8NO ANNAL
314183	GSANDERS	230.0	345	354	0.9065	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4049	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8NO ANNAL
314190	GWESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4049	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8NO ANNAL
313810	GDALHGREN	230.0	345	354	0.8881	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4050	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8FRONT R1
314131	GARNOLDS	230.0	345	354	0.8872	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4050	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8FRONT R1
314139	GOARGROV	230.0	345	354	0.8968	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4050	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8FRONT R1
314175	ECOMORN	230.0	345	354	0.8871	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4050	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8FRONT R1
314182	GNORNECK	230.0	345	354	0.9082	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4050	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8FRONT R1
314183	GSANDERS	230.0	345	354	0.9055	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4050	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8FRONT R1
314190	GWESTMOR	230.0	345	354	0.9022	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4050	D: 6BIRCHWD-6COMORN 1 +8MORRSVIL-8FRONT R1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
313810	DAHLGREN	230.0	345	354	0.8885	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4051	D:6BIRCHWD-6COMORN 1 +8MT STM -8VALLEY 1
314131	BARNOLDS	230.0	345	354	0.8876	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4051	D:6BIRCHWD-6COMORN 1 +8MT STM -8VALLEY 1
314139	GOARGROV	230.0	345	354	0.8972	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4051	D:6BIRCHWD-6COMORN 1 +8MT STM -8VALLEY 1
314175	ECOMORN	230.0	345	354	0.8875	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4051	D:6BIRCHWD-6COMORN 1 +8MT STM -8VALLEY 1
314182	GNORNECK	230.0	345	354	0.9086	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4051	D:6BIRCHWD-6COMORN 1 +8MT STM -8VALLEY 1
314183	GSANDERS	230.0	345	354	0.9059	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4051	D:6BIRCHWD-6COMORN 1 +8MT STM -8VALLEY 1
314190	WESTMOR	230.0	345	354	0.9025	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4051	D:6BIRCHWD-6COMORN 1 +8MT STM -8VALLEY 1
314810	DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4052	D:6BIRCHWD-6COMORN 1 +8MT STM -3M STORM1
314131	BARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4052	D:6BIRCHWD-6COMORN 1 +8MT STM -3M STORM1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4052	D:6BIRCHWD-6COMORN 1 +8MT STM -3M STORM1
314175	ECOMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4052	D:6BIRCHWD-6COMORN 1 +8MT STM -3M STORM1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4052	D:6BIRCHWD-6COMORN 1 +8MT STM -3M STORM1
314183	GSANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4052	D:6BIRCHWD-6COMORN 1 +8MT STM -3M STORM1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4052	D:6BIRCHWD-6COMORN 1 +8MT STM -3M STORM1
313810	DAHLGREN	230.0	345	354	0.8882	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4053	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM11
314131	BARNOLDS	230.0	345	354	0.8879	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4053	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM11
314139	GOARGROV	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4053	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM11
314175	ECOMORN	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4053	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM11
314182	GNORNECK	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4053	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM11
314183	GSANDERS	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4053	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM11
314190	WESTMOR	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4054	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM21
313810	DAHLGREN	230.0	345	354	0.8882	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4054	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM21
314131	BARNOLDS	230.0	345	354	0.8879	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4054	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM21
314139	GOARGROV	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4054	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM21
314175	ECOMORN	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4054	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM21
314182	GNORNECK	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4054	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM21
314183	GSANDERS	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4054	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM21
314190	WESTMOR	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4055	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
313810	DAHLGREN	230.0	345	354	0.8882	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4055	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314131	BARNOLDS	230.0	345	354	0.8879	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4055	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314139	GOARGROV	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4055	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314175	ECOMORN	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4055	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314182	GNORNECK	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4055	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314183	GSANDERS	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4055	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314190	WESTMOR	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4056	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
313810	DAHLGREN	230.0	345	354	0.8882	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4056	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314131	BARNOLDS	230.0	345	354	0.8879	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4056	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314139	GOARGROV	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4056	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314175	ECOMORN	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4056	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314182	GNORNECK	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4056	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314183	GSANDERS	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4056	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314190	WESTMOR	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4057	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
313810	DAHLGREN	230.0	345	354	0.8882	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4057	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314131	BARNOLDS	230.0	345	354	0.8879	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4057	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314139	GOARGROV	230.0	345	354	0.8883	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4057	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314175	ECOMORN	230.0	345	354	0.9093	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4057	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314182	GNORNECK	230.0	345	354	0.9066	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4057	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314183	GSANDERS	230.0	345	354	0.9033	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4057	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31
314190	WESTMOR	230.0	345	354	0.8892	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4057	D:6BIRCHWD-6COMORN 1 +8MT STM -1MT STM31

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314183	GSANDERS	230.0	345	354	0.9025	0.9949	0.9300	1.0700	0.9356	1.0341	LD	4057	D:6BIRCHWD-6COMORN 1 +8NO ANNA-1N ANNA21
314190	WESTMOR	230.0	345	354	0.9021	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4057	D:6BIRCHWD-6COMORN 1 +8NO ANNA-1N ANNA21
314180	DAHLGREN	230.0	345	354	0.9894	0.9954	0.9300	1.0700	0.9400	1.0389	LD	4058	D:6BIRCHWD-6COMORN 1 +8OX -8FOSSUM 1
314131	GARNOLDIS	230.0	345	354	0.8892	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4058	D:6BIRCHWD-6COMORN 1 +8OX -8FOSSUM 1
314139	GOARGROV	230.0	345	354	0.8978	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4058	D:6BIRCHWD-6COMORN 1 +8OX -8FOSSUM 1
314175	COMORN	230.0	345	354	0.8891	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4058	D:6BIRCHWD-6COMORN 1 +8OX -8FOSSUM 1
314182	GNORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4058	D:6BIRCHWD-6COMORN 1 +8OX -8FOSSUM 1
314190	WESTMOR	230.0	345	354	0.9032	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4058	D:6BIRCHWD-6COMORN 1 +8OX -8FOSSUM 1
314180	DAHLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4059	D:6BIRCHWD-6COMORN 1 +3M STORM-3N BRANCH1
314131	GARNOLDIS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4059	D:6BIRCHWD-6COMORN 1 +3M STORM-3N BRANCH1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4059	D:6BIRCHWD-6COMORN 1 +3M STORM-3N BRANCH1
314175	COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4059	D:6BIRCHWD-6COMORN 1 +3M STORM-3N BRANCH1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4059	D:6BIRCHWD-6COMORN 1 +3M STORM-3N BRANCH1
314190	WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4059	D:6BIRCHWD-6COMORN 1 +3M STORM-3N BRANCH1
314180	DAHLGREN	230.0	345	354	0.8889	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4060	D:6BIRCHWD-6COMORN 1 +8SEPTA -8SURY 1
314131	GARNOLDIS	230.0	345	354	0.8880	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4060	D:6BIRCHWD-6COMORN 1 +8SEPTA -8SURY 1
314139	GOARGROV	230.0	345	354	0.8976	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4060	D:6BIRCHWD-6COMORN 1 +8SEPTA -8SURY 1
314175	COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4060	D:6BIRCHWD-6COMORN 1 +8SEPTA -8SURY 1
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4060	D:6BIRCHWD-6COMORN 1 +8SEPTA -8SURY 1
314190	WESTMOR	230.0	345	354	0.9030	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4060	D:6BIRCHWD-6COMORN 1 +8SEPTA -8SURY 1
314180	DAHLGREN	230.0	345	354	0.8884	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4061	D:6BIRCHWD-6COMORN 1 +8SEPTA -8YADKIN 1
314131	GARNOLDIS	230.0	345	354	0.8885	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4061	D:6BIRCHWD-6COMORN 1 +8SEPTA -8YADKIN 1
314139	GOARGROV	230.0	345	354	0.8975	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4061	D:6BIRCHWD-6COMORN 1 +8SEPTA -8YADKIN 1
314175	COMORN	230.0	345	354	0.8885	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4061	D:6BIRCHWD-6COMORN 1 +8SEPTA -8YADKIN 1
314182	GNORNECK	230.0	345	354	0.9095	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4061	D:6BIRCHWD-6COMORN 1 +8SEPTA -8YADKIN 1
314190	WESTMOR	230.0	345	354	0.9029	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4061	D:6BIRCHWD-6COMORN 1 +8SEPTA -8YADKIN 1
314180	DAHLGREN	230.0	345	354	0.8874	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4062	D:6BIRCHWD-6COMORN 1 +8SURY -8SULFOLK1
314131	GARNOLDIS	230.0	345	354	0.8874	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4062	D:6BIRCHWD-6COMORN 1 +8SURY -8SULFOLK1
314139	GOARGROV	230.0	345	354	0.8961	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4062	D:6BIRCHWD-6COMORN 1 +8SURY -8SULFOLK1
314175	COMORN	230.0	345	354	0.8864	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4062	D:6BIRCHWD-6COMORN 1 +8SURY -8SULFOLK1
314182	GNORNECK	230.0	345	354	0.9076	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4062	D:6BIRCHWD-6COMORN 1 +8SURY -8SULFOLK1
314190	WESTMOR	230.0	345	354	0.9048	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4062	D:6BIRCHWD-6COMORN 1 +8SURY -8SULFOLK1
314180	DAHLGREN	230.0	345	354	0.8824	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4063	D:6BIRCHWD-6COMORN 1 +8SURY -1SURY 21
314131	GARNOLDIS	230.0	345	354	0.8824	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4063	D:6BIRCHWD-6COMORN 1 +8SURY -1SURY 21
314139	GOARGROV	230.0	345	354	0.8922	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4063	D:6BIRCHWD-6COMORN 1 +8SURY -1SURY 21
314175	COMORN	230.0	345	354	0.8824	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4063	D:6BIRCHWD-6COMORN 1 +8SURY -1SURY 21
314182	GNORNECK	230.0	345	354	0.9038	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4063	D:6BIRCHWD-6COMORN 1 +8SURY -1SURY 21
314190	WESTMOR	230.0	345	354	0.9010	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4063	D:6BIRCHWD-6COMORN 1 +8SURY -1SURY 21
314180	DAHLGREN	230.0	345	354	0.8976	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4064	D:6BIRCHWD-6COMORN 1 +8PL VIEW-BRAMBLE1
314131	GARNOLDIS	230.0	345	354	0.8890	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4064	D:6BIRCHWD-6COMORN 1 +8PL VIEW-BRAMBLE1
314139	GOARGROV	230.0	345	354	0.8977	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4064	D:6BIRCHWD-6COMORN 1 +8PL VIEW-BRAMBLE1

Bus #	Bus Name	KV	Area	Zone	ContVlt	BaseVlt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314175	6COMORN	230.0	345	354	0.8881	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4064	D:6BIRCHWD-6COMORN 1 +8P1 VIEW-8BRAMBLE1
314182	GNORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4064	D:6BIRCHWD-6COMORN 1 +8P1 VIEW-8BRAMBLE1
314183	6SANDERS	230.0	345	354	0.9064	0.9863	0.9300	1.0700	0.9356	1.0341	LD	4064	D:6BIRCHWD-6COMORN 1 +8P1 VIEW-8BRAMBLE1
314190	6WESTMOR	230.0	345	354	0.9031	0.9894	0.9300	1.0700	0.9370	1.0356	LD	4064	D:6BIRCHWD-6COMORN 1 +8P1 VIEW-8BRAMBLE1
313810	6DARLGREN	230.0	345	354	0.8884	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4065	D:6BIRCHWD-6COMORN 1 +8YADKIN -8SULFOLK1
314131	6ARNOLDS	230.0	345	354	0.8875	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4065	D:6BIRCHWD-6COMORN 1 +8YADKIN -8SULFOLK1
314139	6OAKGROV	230.0	345	354	0.8871	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4065	D:6BIRCHWD-6COMORN 1 +8YADKIN -8SULFOLK1
314175	6COMORN	230.0	345	354	0.8871	0.9963	0.9300	1.0700	0.9457	1.0452	LD	4065	D:6BIRCHWD-6COMORN 1 +8YADKIN -8SULFOLK1
314182	GNORNECK	230.0	345	354	0.9086	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4065	D:6BIRCHWD-6COMORN 1 +8YADKIN -8SULFOLK1
314183	6SANDERS	230.0	345	354	0.9058	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4065	D:6BIRCHWD-6COMORN 1 +8YADKIN -8SULFOLK1
314190	6WESTMOR	230.0	345	354	0.9025	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4065	D:6BIRCHWD-6COMORN 1 +8YADKIN -8SULFOLK1
313810	6DARLGREN	230.0	345	354	0.8891	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4066	D:6BIRCHWD-6COMORN 1 +8FRONT R-1FRNT RY1
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4066	D:6BIRCHWD-6COMORN 1 +8FRONT R-1FRNT RY1
314139	6OAKGROV	230.0	345	354	0.8878	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4066	D:6BIRCHWD-6COMORN 1 +8FRONT R-1FRNT RY1
314175	6COMORN	230.0	345	354	0.8878	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4066	D:6BIRCHWD-6COMORN 1 +8FRONT R-1FRNT RY1
314182	GNORNECK	230.0	345	354	0.9092	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4066	D:6BIRCHWD-6COMORN 1 +8FRONT R-1FRNT RY1
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4066	D:6BIRCHWD-6COMORN 1 +8FRONT R-1FRNT RY1
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4066	D:6BIRCHWD-6COMORN 1 +8FRONT R-1FRNT RY1
313810	6DARLGREN	230.0	345	354	0.8887	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4067	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 3
314131	6ARNOLDS	230.0	345	354	0.8878	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4067	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 3
314139	6OAKGROV	230.0	345	354	0.8874	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4067	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 3
314175	6COMORN	230.0	345	354	0.8878	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4067	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 3
314182	GNORNECK	230.0	345	354	0.9089	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4067	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 3
314183	6SANDERS	230.0	345	354	0.9061	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4067	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 3
314190	6WESTMOR	230.0	345	354	0.9028	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4067	D:6BIRCHWD-6COMORN 1 +6YADKIN -8YADKIN 3
313810	6DARLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4068	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 2
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4068	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 2
314139	6OAKGROV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4068	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 2
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4068	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 2
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4068	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 2
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4068	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 2
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4068	D:6BIRCHWD-6COMORN 1 +3YADKIN -6YADKIN 2
313810	6DARLGREN	230.0	345	354	0.8890	0.9894	0.9300	1.0700	0.9400	1.0389	LD	4069	D:6BIRCHWD-6COMORN 1 +3CHESAPK-6CHESAPK2
314131	6ARNOLDS	230.0	345	354	0.8881	0.9954	0.9300	1.0700	0.9457	1.0452	LD	4069	D:6BIRCHWD-6COMORN 1 +3CHESAPK-6CHESAPK2
314139	6OAKGROV	230.0	345	354	0.8877	0.9878	0.9300	1.0700	0.9384	1.0372	LD	4069	D:6BIRCHWD-6COMORN 1 +3CHESAPK-6CHESAPK2
314175	6COMORN	230.0	345	354	0.8880	0.9963	0.9300	1.0700	0.9465	1.0461	LD	4069	D:6BIRCHWD-6COMORN 1 +3CHESAPK-6CHESAPK2
314182	GNORNECK	230.0	345	354	0.9091	0.9844	0.9300	1.0700	0.9352	1.0337	LD	4069	D:6BIRCHWD-6COMORN 1 +3CHESAPK-6CHESAPK2
314183	6SANDERS	230.0	345	354	0.9064	0.9848	0.9300	1.0700	0.9356	1.0341	LD	4069	D:6BIRCHWD-6COMORN 1 +3CHESAPK-6CHESAPK2
314190	6WESTMOR	230.0	345	354	0.9031	0.9863	0.9300	1.0700	0.9370	1.0356	LD	4069	D:6BIRCHWD-6COMORN 1 +3CHESAPK-6CHESAPK2
314172	6DUNNSVL	230.0	345	354	0.9069	0.9801	0.9300	1.0700	0.9307	1.0376	LD	4072	D:6BIRCHWD-1BRCHWDAL +6DUNNSVL-6LANEXA 1
314182	GNORNECK	230.0	345	354	0.9082	0.9801	0.9300	1.0700	0.9352	1.0372	LD	4072	D:6BIRCHWD-1BRCHWDAL +6DUNNSVL-6LANEXA 1
314180	6HAYES	230.0	345	354	0.9070	1.0085	0.9300	1.0700	0.9501	1.0515	LD	4084	D:6BIRCHWD-1BRCHWDAL +6HAYES -6YORKTWN1
314189	6PAPEMILL	230.0	345	354	0.9062	1.0014	0.9300	1.0700	0.9513	1.0515	LD	4113	D:6BIRCHWD-1BRCHWDAL +6CORRECTN-6LANEXA 1
314375	6CORRECTN	230.0	345	354	0.9058	1.0020	0.9300	1.0700	0.9519	1.0519	LD	4113	D:6BIRCHWD-1BRCHWDAL +6CORRECTN-6LANEXA 1
314180	6HAYES	230.0	345	354	0.9058	1.0085	0.9300	1.0700	0.9501	1.0508	LD	4389	D:6OAKGROV-6WESTMOR1 +6HAYES -6YORKTWN1
314176	6HAWMOY	230.0	345	354	0.9046	1.0040	0.9300	1.0700	0.9538	1.0542	LD	4418	D:6OAKGROV-6WESTMOR1 +6CORRECTN-6LANEXA 1
314189	6PAPEMILL	230.0	345	354	0.9064	1.0014	0.9300	1.0700	0.9513	1.0515	LD	4418	D:6OAKGROV-6WESTMOR1 +6CORRECTN-6LANEXA 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314375	6CORRCTN	230.0	345	354	0.8980	1.0020	0.9300	1.0700	0.9519	1.0521	LD	4418	D: 60ARGOV - 6WSTWORI + 6CORRCTN - 6LANEXA 1
314176	GHARMONY	230.0	345	354	0.9018	1.0040	0.9300	1.0700	0.9536	1.0542	LD	4722	D: 6DUNNSVL - 6NORNECK1 + 6CORRCTN - 6LANEXA 1
314189	6PAPERMTL	230.0	345	354	0.8956	1.0014	0.9300	1.0700	0.9513	1.0515	LD	4722	D: 6DUNNSVL - 6NORNECK1 + 6CORRCTN - 6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8952	1.0020	0.9300	1.0700	0.9519	1.0521	LD	4722	D: 6DUNNSVL - 6NORNECK1 + 6CORRCTN - 6LANEXA 1
314172	6DUNNSVL	230.0	345	354	0.9091	0.9881	0.9300	1.0700	0.9387	1.0376	LD	4995	D: 6DUNNSVL - 6LANEXA 1 + 3LANCAST - 3LANEXA 1
314176	GHARMONY	230.0	345	354	0.9021	1.0040	0.9300	1.0700	0.9536	1.0542	LD	5025	D: 6DUNNSVL - 6LANEXA 1 + 6CORRCTN - 6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8955	1.0020	0.9300	1.0700	0.9519	1.0521	LD	5025	D: 6DUNNSVL - 6LANEXA 1 + 6CORRCTN - 6LANEXA 1
314180	GHAYES	230.0	345	354	0.9049	1.0085	0.9300	1.0700	0.9581	1.0589	LD	5298	D: 3GARNER - 3LANCAST1 + 6HAYES - 6YORKTWN1
314189	6PAPERMTL	230.0	345	354	0.9077	1.0014	0.9300	1.0700	0.9513	1.0515	LD	5327	D: 3GARNER - 3LANCAST1 + 6CORRCTN - 6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9073	1.0020	0.9300	1.0700	0.9519	1.0521	LD	5327	D: 3GARNER - 3LANCAST1 + 6CORRCTN - 6LANEXA 1
314180	GHAYES	230.0	345	354	0.9058	1.0085	0.9300	1.0700	0.9581	1.0589	LD	5599	D: 3GARNER - 3NORNECK1 + 6HAYES - 6YORKTWN1
314176	GHARMONY	230.0	345	354	0.9003	1.0040	0.9300	1.0700	0.9536	1.0542	LD	5628	D: 3GARNER - 3NORNECK1 + 6CORRCTN - 6LANEXA 1
314189	6PAPERMTL	230.0	345	354	0.8940	1.0014	0.9300	1.0700	0.9513	1.0515	LD	5628	D: 3GARNER - 3NORNECK1 + 6CORRCTN - 6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8937	1.0020	0.9300	1.0700	0.9519	1.0521	LD	5628	D: 3GARNER - 3NORNECK1 + 6CORRCTN - 6LANEXA 1
314176	GHARMONY	230.0	345	354	0.8530	1.0040	0.9300	1.0700	0.9536	1.0542	LD	5906	D: 3HARMONY - 3SHACKLE1 + 6PAPERMTL - 6CORRCTN1
314189	6PAPERMTL	230.0	345	354	0.8477	1.0014	0.9300	1.0700	0.9513	1.0515	LD	5906	D: 3HARMONY - 3SHACKLE1 + 6PAPERMTL - 6CORRCTN1
314375	6CORRCTN	230.0	345	354	0.8605	1.0040	0.9300	1.0700	0.9536	1.0542	LD	5928	D: 3HARMONY - 3SHACKLE1 + 6CORRCTN - 6LANEXA 1
314187	3WAN 176	115.0	345	354	0.9035	0.9801	0.9300	1.0700	0.9311	1.0291	LD	5928	D: 3HARMONY - 3SHACKLE1 + 6CORRCTN - 6LANEXA 1
314189	6PAPERMTL	230.0	345	354	0.8538	1.0014	0.9300	1.0700	0.9513	1.0515	LD	5928	D: 3HARMONY - 3SHACKLE1 + 6CORRCTN - 6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8535	1.0020	0.9300	1.0700	0.9519	1.0521	LD	5928	D: 3HARMONY - 3SHACKLE1 + 6CORRCTN - 6LANEXA 1
314176	GHARMONY	230.0	345	354	0.8996	1.0040	0.9300	1.0700	0.9536	1.0542	LD	6790	D: 3HARMONY - 3HARMO 11 + 6HARMONY - 6PAPERMTL
314180	GHAYES	230.0	345	354	0.8921	1.0085	0.9300	1.0700	0.9581	1.0589	LD	6793	D: 3HARMONY - 3HARMO 11 + 6HAYES - 6YORKTWN1
314176	GHARMONY	230.0	345	354	0.8563	1.0040	0.9300	1.0700	0.9536	1.0542	LD	6800	D: 3HARMONY - 3HARMO 11 + 6PAPERMTL - 6CORRCTN1
314189	6PAPERMTL	230.0	345	354	0.8537	1.0014	0.9300	1.0700	0.9513	1.0515	LD	6800	D: 3HARMONY - 3HARMO 11 + 6PAPERMTL - 6CORRCTN1
314176	GHARMONY	230.0	345	354	0.8450	1.0040	0.9300	1.0700	0.9536	1.0542	LD	6822	D: 3HARMONY - 3HARMO 11 + 6CORRCTN - 6LANEXA 1
314189	6PAPERMTL	230.0	345	354	0.8389	1.0014	0.9300	1.0700	0.9513	1.0515	LD	6822	D: 3HARMONY - 3HARMO 11 + 6CORRCTN - 6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8365	1.0020	0.9300	1.0700	0.9519	1.0521	LD	6822	D: 3HARMONY - 3HARMO 11 + 6CORRCTN - 6LANEXA 1
314180	GHAYES	230.0	345	354	0.8939	1.0085	0.9300	1.0700	0.9581	1.0589	LD	7089	D: 3HARMONY - 3HARMO 21 + 6HAYES - 6YORKTWN1
314176	GHARMONY	230.0	345	354	0.8735	1.0040	0.9300	1.0700	0.9536	1.0542	LD	7096	D: 3HARMONY - 3HARMO 21 + 6PAPERMTL - 6CORRCTN1
314189	6PAPERMTL	230.0	345	354	0.8653	1.0014	0.9300	1.0700	0.9513	1.0515	LD	7096	D: 3HARMONY - 3HARMO 21 + 6PAPERMTL - 6CORRCTN1
314176	GHARMONY	230.0	345	354	0.8527	1.0040	0.9300	1.0700	0.9536	1.0542	LD	7118	D: 3HARMONY - 3HARMO 21 + 6CORRCTN - 6LANEXA 1
314189	6PAPERMTL	230.0	345	354	0.8460	1.0014	0.9300	1.0700	0.9513	1.0515	LD	7118	D: 3HARMONY - 3HARMO 21 + 6CORRCTN - 6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8456	1.0020	0.9300	1.0700	0.9519	1.0521	LD	7118	D: 3HARMONY - 3HARMO 21 + 6CORRCTN - 6LANEXA 1
314180	GHAYES	230.0	345	354	0.9014	1.0085	0.9300	1.0700	0.9581	1.0589	LD	7384	D: 3HARMONY - 6HARMONY11 + 6HAYES - 6YORKTWN1
313828	3WHITENAR	115.0	345	354	0.8688	0.9983	0.9300	1.0700	0.9484	1.0482	LD	7676	D: 6HARMONY - 6PAPERMTL1 + 3HAYES89 - 6HAYES 1
314174	GHARMONY	230.0	345	354	0.8977	0.9972	0.9300	1.0700	0.9473	1.0471	LD	7676	D: 6HARMONY - 6PAPERMTL1 + 3HAYES89 - 6HAYES 1
314176	GHARMONY	230.0	345	354	0.8404	1.0040	0.9300	1.0700	0.9536	1.0542	LD	7676	D: 6HARMONY - 6PAPERMTL1 + 3HAYES89 - 6HAYES 1
314177	3HAYES89	115.0	345	354	0.8630	0.9984	0.9300	1.0700	0.9484	1.0483	LD	7676	D: 6HARMONY - 6PAPERMTL1 + 3HAYES89 - 6HAYES 1
314187	3WAN 176	115.0	345	354	0.8679	0.9801	0.9300	1.0700	0.9311	1.0291	LD	7676	D: 6HARMONY - 6PAPERMTL1 + 3HAYES89 - 6HAYES 1
314191	3WHITE S	115.0	345	354	0.8642	0.9940	0.9300	1.0700	0.9444	1.0439	LD	7676	D: 6HARMONY - 6PAPERMTL1 + 3HAYES89 - 6HAYES 1
314365	3HARMO 1	115.0	345	354	0.8883	0.9979	0.9300	1.0700	0.9480	1.0478	LD	7676	D: 6HARMONY - 6PAPERMTL1 + 3HAYES89 - 6HAYES 1
314395	3HARMO 2	115.0	345	354	0.8881	0.9977	0.9300	1.0700	0.9478	1.0476	LD	7676	D: 6HARMONY - 6PAPERMTL1 + 3HAYES89 - 6HAYES 1
313828	3WHITENAR	115.0	345	354	0.8469	0.9983	0.9300	1.0700	0.9484	1.0482	LD	7678	D: 6HARMONY - 6PAPERMTL1 + 6HAYES - 6YORKTWN1
314174	GHARMONY	230.0	345	354	0.8665	0.9972	0.9300	1.0700	0.9473	1.0471	LD	7678	D: 6HARMONY - 6PAPERMTL1 + 6HAYES - 6YORKTWN1
314176	GHARMONY	230.0	345	354	0.8520	1.0040	0.9300	1.0700	0.9536	1.0542	LD	7678	D: 6HARMONY - 6PAPERMTL1 + 6HAYES - 6YORKTWN1
314177	3HAYES89	115.0	345	354	0.8408	0.9984	0.9300	1.0700	0.9484	1.0483	LD	7678	D: 6HARMONY - 6PAPERMTL1 + 6HAYES - 6YORKTWN1

Bus #	Bus Name	KV	Area	Zone	ContVlt	BaseVlt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314180	GHAYES	230.0		354	0.8153	1.0085	0.9300	1.0700	0.9581	1.0589	LD	7678	D:GHARMONY-6PAPERMI1 +6HAYES -6YORKTWN1
314184	SSHACKLE	115.0		345	0.8955	0.9935	0.9300	1.0700	0.9436	1.0431	LD	7678	D:GHARMONY-6PAPERMI1 +6HAYES -6YORKTWN1
314187	SWAN 176	115.0		345	0.8460	0.9801	0.9300	1.0700	0.9311	1.0291	LD	7678	D:GHARMONY-6PAPERMI1 +6HAYES -6YORKTWN1
314191	WHITE S	115.0		345	0.8630	0.9942	0.9300	1.0700	0.9444	1.0439	LD	7678	D:GHARMONY-6PAPERMI1 +6HAYES -6YORKTWN1
314385	SHARMO 1	115.0		345	0.8671	0.9979	0.9300	1.0700	0.9480	1.0478	LD	7678	D:GHARMONY-6PAPERMI1 +6HAYES -6YORKTWN1
314395	SHARMO 2	115.0		345	0.8659	0.9977	0.9300	1.0700	0.9478	1.0476	LD	7678	D:GHARMONY-6PAPERMI1 +6HAYES -6YORKTWN1
314176	GHARMONY	230.0		354	0.8705	1.0040	0.9300	1.0700	0.9538	1.0542	LD	7684	D:GHARMONY-6PAPERMI1 +3WEST PT-3LANEXA 1
313028	WHITTENAR	115.0		345	0.6452	0.9983	0.9300	1.0700	0.9484	1.0482	LD	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRECTN1
314174	GHARMONY	115.0		345	0.6446	0.9972	0.9300	1.0700	0.9473	1.0471	LD	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRECTN1
314176	GHARMONY	230.0		345	0.6090	1.0040	0.9300	1.0700	0.9538	1.0542	LD	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRECTN1
314177	GHAYES89	115.0		345	0.6069	0.9984	0.9300	1.0700	0.9484	1.0483	LD	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRECTN1
314184	SSHACKLE	115.0		345	0.7467	0.9935	0.9300	1.0700	0.9438	1.0431	LD	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRECTN1
314187	SWAN 176	115.0		345	0.6555	0.9801	0.9300	1.0700	0.9311	1.0291	LD	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRECTN1
314188	WEST PT	115.0		345	0.8247	0.9916	0.9300	1.0700	0.9420	1.0412	LD	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRECTN1
314189	GEAPERMI1	230.0		345	0.6014	1.0014	0.9300	1.0700	0.9513	1.0515	LD	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRECTN1
314191	WHITE S	115.0		345	0.6398	0.9942	0.9300	1.0700	0.9444	1.0439	LD	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRECTN1
314385	SHARMO 1	115.0		345	0.6450	0.9979	0.9300	1.0700	0.9480	1.0478	LD	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRECTN1
314395	SHARMO 2	115.0		345	0.6449	0.9977	0.9300	1.0700	0.9478	1.0476	LD	7978	D:3HAYES89-6HAYES 1 +6PAPERMI-6CORRECTN1
313828	WHITTENAR	115.0		345	0.5340	0.9983	0.9300	1.0700	0.9484	1.0482	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314174	GHARMONY	115.0		345	0.5656	0.9972	0.9300	1.0700	0.9473	1.0471	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314176	GHARMONY	230.0		345	0.5033	1.0040	0.9300	1.0700	0.9538	1.0542	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314177	GHAYES89	115.0		345	0.5254	0.9984	0.9300	1.0700	0.9484	1.0483	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314184	SSHACKLE	115.0		345	0.6398	0.9935	0.9300	1.0700	0.9438	1.0431	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314187	SWAN 176	115.0		345	0.5347	0.9801	0.9300	1.0700	0.9311	1.0291	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314188	WEST PT	115.0		345	0.7850	0.9916	0.9300	1.0700	0.9420	1.0412	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314189	GEAPERMI1	230.0		345	0.4931	1.0014	0.9300	1.0700	0.9513	1.0515	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314191	WHITE S	115.0		345	0.5606	0.9942	0.9300	1.0700	0.9444	1.0439	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314375	6CORRECTN	230.0		345	0.4926	1.0020	0.9300	1.0700	0.9519	1.0521	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314385	SHARMO 1	115.0		345	0.5660	0.9979	0.9300	1.0700	0.9480	1.0478	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314395	SHARMO 2	115.0		345	0.5659	0.9977	0.9300	1.0700	0.9478	1.0476	LD	8000	D:3HAYES89-6HAYES 1 +6CORRECTN-6LANEXA 1
314180	GHAYES	230.0		345	0.9067	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8263	D:3LANCAST-3LANCA 11 +6HAYES -6YORKTWN1
314189	GEAPERMI1	230.0		345	0.9059	1.0014	0.9300	1.0700	0.9513	1.0515	LD	8292	D:3LANCAST-3LANCA 11 +6CORRECTN-6LANEXA 1
314375	6CORRECTN	230.0		345	0.9055	1.0020	0.9300	1.0700	0.9519	1.0521	LD	8292	D:3LANCAST-3LANCA 11 +6CORRECTN-6LANEXA 1
314180	GHAYES	230.0		345	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8553	D:6HAYES -6YORKTWN1 +3NORNECK-6NORNECK1
314189	GHAYES	230.0		345	0.9077	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8556	D:6HAYES -6YORKTWN1 +3NORNECK-6NORNECK2
314180	GHAYES	230.0		345	0.9071	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8557	D:6HAYES -6YORKTWN1 +6SANDERS-6SANDERS1
314189	GHAYES	230.0		345	0.9057	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8558	D:6HAYES -6YORKTWN1 +6SANDERS-6SANDERS2
313828	WHITTENAR	115.0		345	0.5995	0.9983	0.9300	1.0700	0.9484	1.0482	LD	8561	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRECTN1
314174	GHARMONY	115.0		345	0.6254	0.9972	0.9300	1.0700	0.9473	1.0471	LD	8561	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRECTN1
314176	GHARMONY	230.0		345	0.5935	1.0040	0.9300	1.0700	0.9538	1.0542	LD	8561	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRECTN1
314177	GHAYES89	115.0		345	0.5921	0.9984	0.9300	1.0700	0.9484	1.0483	LD	8561	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRECTN1
314180	GHAYES	230.0		345	0.5732	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8561	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRECTN1
314184	SSHACKLE	115.0		345	0.7349	0.9935	0.9300	1.0700	0.9438	1.0431	LD	8561	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRECTN1
314187	SWAN 176	115.0		345	0.5999	0.9801	0.9300	1.0700	0.9311	1.0291	LD	8561	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRECTN1
314188	WEST PT	115.0		345	0.8050	0.9916	0.9300	1.0700	0.9420	1.0412	LD	8561	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRECTN1
314189	GEAPERMI1	230.0		345	0.5958	1.0014	0.9300	1.0700	0.9513	1.0515	LD	8561	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRECTN1
314191	WHITE S	115.0		345	0.6246	0.9942	0.9300	1.0700	0.9444	1.0439	LD	8561	D:6HAYES -6YORKTWN1 +6PAPERMI-6CORRECTN1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314365	SHARMO 1	115.0	345	354	0.6299	0.9979	0.9300	1.0700	0.9480	1.0478	LD	8561	D:GHAYES -6YORKTWN1 +6PAPERMI-6CORRCTN1
314395	SHARMO 2	115.0	345	354	0.6297	0.9977	0.9300	1.0700	0.9478	1.0476	LD	8563	D:GHAYES -6YORKTWN1 +6PAPERMI-6CORRCTN1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8562	G:GHAYES -6YORKTWN1 +30AKRIDG-30AKRI 11
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8563	D:GHAYES -6YORKTWN1 +30AKRIDG-30AKRI 11
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8564	D:GHAYES -6YORKTWN1 +30AKRIDG-30AKRI2321
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8565	D:GHAYES -6YORKTWN1 +1GOSPORT-3GOSPORT1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8566	D:GHAYES -6YORKTWN1 +1GOSPORT-1GOSPORT1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8567	D:GHAYES -6YORKTWN1 +1GOSPORT-1GOSPORT1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8568	D:GHAYES -6YORKTWN1 +1GOSPORT-1GOSPORT1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8569	D:GHAYES -6YORKTWN1 +6BIRONEC-6LANDSTN1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8570	D:GHAYES -6YORKTWN1 +6BIRONEC-6VA BCH 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8571	D:GHAYES -6YORKTWN1 +6PENNIMA-6KINGS M1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8572	D:GHAYES -6YORKTWN1 +6PENNIMA-6WALR2091
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8573	D:GHAYES -6YORKTWN1 +3S27767A-3BURTN671
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8574	D:GHAYES -6YORKTWN1 +3S27767B-3AMPHB671
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8575	D:GHAYES -6YORKTWN1 +3S27767B-3BURTN671
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8576	D:GHAYES -6YORKTWN1 +3S27767B-30AKWOOD1
314180	GHAYES	230.0	345	354	0.9049	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8577	D:GHAYES -6YORKTWN1 +3AMOCO Y-3YORKTWN1
314180	GHAYES	230.0	345	354	0.9062	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8578	D:GHAYES -6YORKTWN1 +3BLOXOM-3MERCURY1
314176	GHARMONY	115.0	345	354	0.5284	0.9972	0.9300	1.0700	0.9473	1.0471	LD	8579	D:GHAYES -6YORKTWN1 +3COLONY -3WARWICK1
314176	GHARMONY	115.0	345	354	0.4962	1.0040	0.9300	1.0700	0.9581	1.0589	LD	8580	D:GHAYES -6YORKTWN1 +3COLONY -3YORKTWN1
314177	GHAYES89	115.0	345	354	0.5179	0.9984	0.9300	1.0700	0.9484	1.0483	LD	8581	D:GHAYES -6YORKTWN1 +3COPELAND-3NNERS751
314180	GHAYES	230.0	345	354	0.4846	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8582	D:GHAYES -6YORKTWN1 +3COPELAND-3WHEALT1
314184	3SHACKLE	115.0	345	354	0.6223	0.9935	0.9300	1.0700	0.9438	1.0431	LD	8583	D:GHAYES -6YORKTWN1 +6CORRCTN-6LANEXA 1
314187	3WAN 176	115.0	345	354	0.5273	0.9801	0.9300	1.0700	0.9311	1.0291	LD	8583	D:GHAYES -6YORKTWN1 +6CORRCTN-6LANEXA 1
314188	3WEST PT	115.0	345	354	0.7796	0.9916	0.9300	1.0700	0.9420	1.0412	LD	8583	D:GHAYES -6YORKTWN1 +6CORRCTN-6LANEXA 1
314189	6PAPERMI	230.0	345	354	0.4860	1.0014	0.9300	1.0700	0.9513	1.0515	LD	8583	D:GHAYES -6YORKTWN1 +6CORRCTN-6LANEXA 1
314191	3WHITE S	115.0	345	354	0.5333	0.9942	0.9300	1.0700	0.9444	1.0439	LD	8583	D:GHAYES -6YORKTWN1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.4855	1.0020	0.9300	1.0700	0.9519	1.0521	LD	8583	D:GHAYES -6YORKTWN1 +6CORRCTN-6LANEXA 1
314385	SHARMO 1	115.0	345	354	0.5587	0.9979	0.9300	1.0700	0.9480	1.0478	LD	8583	D:GHAYES -6YORKTWN1 +6CORRCTN-6LANEXA 1
314395	SHARMO 2	115.0	345	354	0.5586	0.9977	0.9300	1.0700	0.9478	1.0476	LD	8583	D:GHAYES -6YORKTWN1 +6CORRCTN-6LANEXA 1
314180	GHAYES	230.0	345	354	0.9075	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8584	D:GHAYES -6YORKTWN1 +6DENBIGH-6YORKTWN1
314180	GHAYES	230.0	345	354	0.9075	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8585	D:GHAYES -6YORKTWN1 +6DENBIGH-6YORKTWN1
314180	GHAYES	230.0	345	354	0.9053	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8586	D:GHAYES -6YORKTWN1 +3DOW 34 -3FTEUS341
314180	GHAYES	230.0	345	354	0.9051	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8587	D:GHAYES -6YORKTWN1 +3DOW 34 -3LANEXA 1
314180	GHAYES	230.0	345	354	0.9084	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8588	D:GHAYES -6YORKTWN1 +3FTEUS34-3GRAFT341
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8589	D:GHAYES -6YORKTWN1 +3FTEUS58-3GRAFT581
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8590	D:GHAYES -6YORKTWN1 +3FTEUS58-3LEANS581
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8591	D:GHAYES -6YORKTWN1 +3GRAFT34-3YORKTWN1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8592	D:GHAYES -6YORKTWN1 +3GRAFT58-3YORKTWN1
314180	GHAYES	230.0	345	354	0.9055	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8593	D:GHAYES -6YORKTWN1 +3KINGS M-3TOAMOS81
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8594	D:GHAYES -6YORKTWN1 +3KINGS M-3KMS 581

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8595	D:GHAYES -6YORKTWN1 +6KINGS N-6YORKTWN1
314180	GHAYES	230.0	345	354	0.9056	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8596	D:GHAYES -6YORKTWN1 +3LANEXA -3NNWS581
314180	GHAYES	230.0	345	354	0.9070	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8597	D:GHAYES -6YORKTWN1 +3LANEXA -6LANEXA 1
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8598	D:GHAYES -6YORKTWN1 +3LANEXA -6LANEXA 2
314180	GHAYES	230.0	345	354	0.9065	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8599	D:GHAYES -6YORKTWN1 +6LANEXA -6LIGH2091
314180	GHAYES	230.0	345	354	0.9034	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8600	D:GHAYES -6YORKTWN1 +6LANEXA -6LANEX 11
314180	GHAYES	230.0	345	354	0.9072	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8601	D:GHAYES -6YORKTWN1 +3LEBAN58-3YNNWS 581
314180	GHAYES	230.0	345	354	0.9058	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8602	D:GHAYES -6YORKTWN1 +6LIGH285-6WALLR2851
314180	GHAYES	230.0	345	354	0.9060	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8603	D:GHAYES -6YORKTWN1 +6LIGH209-6WALLR2091
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8604	D:GHAYES -6YORKTWN1 +3MAGRUDDR-3PENINS11
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8605	D:GHAYES -6YORKTWN1 +3MAGRUDDR-3SHELBNK1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8607	D:GHAYES -6YORKTWN1 +3MAGRUDDR-3PENINS11
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8608	D:GHAYES -6YORKTWN1 +3MAGRUDDR-3PENINS12
314180	GHAYES	230.0	345	354	0.9057	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8609	D:GHAYES -6YORKTWN1 +3NNWS58-3FOANOS81
314180	GHAYES	230.0	345	354	0.9056	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8610	D:GHAYES -6YORKTWN1 +6NP NEWS-6NP NE 11
314180	GHAYES	230.0	345	354	0.9090	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8611	D:GHAYES -6YORKTWN1 +6NP NEWS-6NP NE 11
314180	GHAYES	230.0	345	354	0.9090	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8612	D:GHAYES -6YORKTWN1 +6PEMBROK-6SHELBNK1
314180	GHAYES	230.0	345	354	0.9077	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8613	D:GHAYES -6YORKTWN1 +3PENINS11-3SEAFD761
314180	GHAYES	230.0	345	354	0.9076	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8614	D:GHAYES -6YORKTWN1 +3PENINS11-3SEAFD791
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8615	D:GHAYES -6YORKTWN1 +3PENINS11-3U CARB01
314180	GHAYES	230.0	345	354	0.9076	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8616	D:GHAYES -6YORKTWN1 +3PENINS11-3PENINS11
314180	GHAYES	230.0	345	354	0.9071	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8617	D:GHAYES -6YORKTWN1 +3PENINS11-6PENINS11
314180	GHAYES	230.0	345	354	0.9053	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8618	D:GHAYES -6YORKTWN1 +6PENINS11-6SHELBNK1
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8619	D:GHAYES -6YORKTWN1 +6PENINS11-6TABB 1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8620	D:GHAYES -6YORKTWN1 +3SEAFD76-3YORKTWN1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8621	D:GHAYES -6YORKTWN1 +3SEAFD79-3YORKTWN1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8622	D:GHAYES -6YORKTWN1 +3SHELBNK-3WHEALT1
314180	GHAYES	230.0	345	354	0.9075	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8623	D:GHAYES -6YORKTWN1 +3SHELBNK-6SHELBNK1
314180	GHAYES	230.0	345	354	0.9068	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8624	D:GHAYES -6YORKTWN1 +6TABB -6YORKTWN1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8625	D:GHAYES -6YORKTWN1 +3U CARB0-3WHEALT1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8626	D:GHAYES -6YORKTWN1 +3MARWICK-3WHEALT1
314180	GHAYES	230.0	345	354	0.9071	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8627	D:GHAYES -6YORKTWN1 +6MARWICK-6WHEALT1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8628	D:GHAYES -6YORKTWN1 +3WHEALT1-6WHEALT1
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8629	D:GHAYES -6YORKTWN1 +3WHEALT1-6WHEALT12
314180	GHAYES	230.0	345	354	0.9069	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8630	D:GHAYES -6YORKTWN1 +6WHEALT1-6WHEALT1
314180	GHAYES	230.0	345	354	0.9050	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8631	D:GHAYES -6YORKTWN1 +6WHEALT1-6WHEALT1
314180	GHAYES	230.0	345	354	0.9097	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8632	D:GHAYES -6YORKTWN1 +6WHEALT1-6WHEALT1
314180	GHAYES	230.0	345	354	0.9074	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8633	D:GHAYES -6YORKTWN1 +3YORKTWN-3YORK PS1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8634	D:GHAYES -6YORKTWN1 +3YORKTWN-3YORKTWN21
314180	GHAYES	230.0	345	354	0.9074	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8635	D:GHAYES -6YORKTWN1 +6YORKTWN-6YORKT 11
314180	GHAYES	230.0	345	354	0.9074	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8636	D:GHAYES -6YORKTWN1 +6YORKTWN-3YORK PS1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8637	D:GHAYES -6YORKTWN1 +6YORKTWN-1YORKT31
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8638	D:GHAYES -6YORKTWN1 +3ALEX CR-3BOMERS 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8639	D:GHAYES -6YORKTWN1 +3STORE -310NC271
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8640	D:GHAYES -6YORKTWN1 +3STORE -3VA BCH 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8641	D:GHAYES -6YORKTWN1 +3BAYSIDE-3BURNING71
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8642	D:GHAYES -6YORKTWN1 +3BAYSIDE-310NC271

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	Voltdrop	Voltrise	Viol	Ncon	Contingency Description
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8643	D:GHAYES -6YORKTWN1 +3BERKLS1-3COGSPORT1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8644	D:GHAYES -6YORKTWN1 +3BERKLS1-3REEVES 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8645	D:GHAYES -6YORKTWN1 +3BOWERS -3DEEPC871
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8646	D:GHAYES -6YORKTWN1 +3BOWERS -3HOGE F1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8647	D:GHAYES -6YORKTWN1 +6BOWERS -6CHRLND1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8648	D:GHAYES -6YORKTWN1 +6BOWERS -6YADKIN 1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8649	D:GHAYES -6YORKTWN1 +3BURN67-3DAVIS271
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8650	D:GHAYES -6YORKTWN1 +3BURN67-3DAVIS271
314180	GHAYES	230.0	345	354	0.9084	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8651	D:GHAYES -6YORKTWN1 +3CHESAPK-3CMN GAS1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8652	D:GHAYES -6YORKTWN1 +3CHESAPK-3CRADOCK1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8653	D:GHAYES -6YORKTWN1 +3CHESAPK-3DEEPC461
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8654	D:GHAYES -6YORKTWN1 +3CHESAPK-3DEEPC871
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8655	D:GHAYES -6YORKTWN1 +3CHESAPK-3DOZIER 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8656	D:GHAYES -6YORKTWN1 +3CHESAPK-3COGSPORT1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8657	D:GHAYES -6YORKTWN1 +3CHESAPK-3REEVES 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8658	D:GHAYES -6YORKTWN1 +3CHESAPK-3CHESPTX1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8659	D:GHAYES -6YORKTWN1 +6CHESAPK-6CHESPTX1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8660	D:GHAYES -6YORKTWN1 +6CHESAPK-6GRENWCH1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8661	D:GHAYES -6YORKTWN1 +6CHESAPK-6YADKIN 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8662	D:GHAYES -6YORKTWN1 +3CHESPTX-6CHESPTX1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8663	D:GHAYES -6YORKTWN1 +3CHRLND-3HOGE F1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8664	D:GHAYES -6YORKTWN1 +3CHRLND-6CHRLND1
314180	GHAYES	230.0	345	354	0.9083	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8665	D:GHAYES -6YORKTWN1 +6CHRLND-6HARBORV1
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8666	D:GHAYES -6YORKTWN1 +6CHRLND-6LK KING1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8667	D:GHAYES -6YORKTWN1 +6CHRLND-6SEWLSFT1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8668	D:GHAYES -6YORKTWN1 +6CHRLND-6SEWLSFT2
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8669	D:GHAYES -6YORKTWN1 +6CHRLND-6CHRL 11
314180	GHAYES	230.0	345	354	0.9084	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8670	D:GHAYES -6YORKTWN1 +3CMN GAS-3GRASFLD1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8671	D:GHAYES -6YORKTWN1 +3CRADOCK-3REEVES 1
314180	GHAYES	230.0	345	354	0.9084	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8672	D:GHAYES -6YORKTWN1 +3CRADOCK-3SHEA 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8673	D:GHAYES -6YORKTWN1 +3DAVIS67-3GRENWCH1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8674	D:GHAYES -6YORKTWN1 +3DAVIS67-3GRENWCH1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8675	D:GHAYES -6YORKTWN1 +3DEEPC46-3YADKIN 1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8676	D:GHAYES -6YORKTWN1 +6DOZIER -6ELIZ R 1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8677	D:GHAYES -6YORKTWN1 +6DOZIER -6GRENWCH1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8678	D:GHAYES -6YORKTWN1 +6ELIZ R -6YADKIN 1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8679	D:GHAYES -6YORKTWN1 +6ELIZ R -1ELIZAR11
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8680	D:GHAYES -6YORKTWN1 +6ELIZ R -1ELIZAR21
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8681	D:GHAYES -6YORKTWN1 +6ELIZ R -1ELIZAR31
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8682	D:GHAYES -6YORKTWN1 +6FENTRES-6LANDSTN1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8683	D:GHAYES -6YORKTWN1 +6FENTRES-6THINS2791
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8684	D:GHAYES -6YORKTWN1 +6FENTRES-6HICKORY1
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8685	D:GHAYES -6YORKTWN1 +6FENTRES-6FENTR 11
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8686	D:GHAYES -6YORKTWN1 +6FENTRES-6FENTR 21
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8687	D:GHAYES -6YORKTWN1 +6FENTRES-8FENTRES1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8688	D:GHAYES -6YORKTWN1 +6FENTRES-8FENTRES2
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8689	D:GHAYES -6YORKTWN1 +3GREATBR-3HICKORY1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8690	D:6HAYES -6YORKTWN1 +3GRASPLD-3GREAT BL
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8691	D:6HAYES -6YORKTWN1 +6GRN RUN-6GRENWCH1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8692	D:6HAYES -6YORKTWN1 +6GRN RUN-6LYNHAVN1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8693	D:6HAYES -6YORKTWN1 +3GRENWCH-3THOLE S1
314180	GHAYES	230.0	345	354	0.9085	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8694	D:6HAYES -6YORKTWN1 +3GRENWCH-3THOMPSTN1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8695	D:6HAYES -6YORKTWN1 +3GRENWCH-3GRENW 11
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8696	D:6HAYES -6YORKTWN1 +3GRENWCH-6GRENWCH1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8697	D:6HAYES -6YORKTWN1 +3GRENWCH-6GRENWCH2
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8698	D:6HAYES -6YORKTWN1 +6GRENWCH-6REEVES 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8699	D:6HAYES -6YORKTWN1 +6GRENWCH-6THALIA 1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8700	D:6HAYES -6YORKTWN1 +6GRENWCH-6GRENW 11
314180	GHAYES	230.0	345	354	0.9083	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8701	D:6HAYES -6YORKTWN1 +6HARBORV-6YADKIN 1
314180	GHAYES	230.0	345	354	0.9084	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8702	D:6HAYES -6YORKTWN1 +6HARBORV-6SMITELD1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8703	D:6HAYES -6YORKTWN1 +3HICKORY-6HICKORY1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8704	D:6HAYES -6YORKTWN1 +3IND PRK-3REEVES 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8705	D:6HAYES -6YORKTWN1 +3IND PRK-3THOLE S1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8706	D:6HAYES -6YORKTWN1 +3LANDSTN-3P ANNE 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8707	D:6HAYES -6YORKTWN1 +3LANDSTN-6LANDSTN1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8708	D:6HAYES -6YORKTWN1 +3LANDSTN-6LANDSTN2
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8709	D:6HAYES -6YORKTWN1 +6HUNTSMA-6HRS2791
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8710	D:6HAYES -6YORKTWN1 +6HUNTSMA-6SUFFOLK1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8711	D:6HAYES -6YORKTWN1 +6LANDSTN-6LYNHAVN1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8712	D:6HAYES -6YORKTWN1 +6LANDSTN-6STUMPY 1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8713	D:6HAYES -6YORKTWN1 +6LANDSTN-6W LAND 1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8714	D:6HAYES -6YORKTWN1 +6LANDSTN-6LANDS 11
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8715	D:6HAYES -6YORKTWN1 +3LONDONB-3PENDLTH1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8716	D:6HAYES -6YORKTWN1 +3LONDONB-3P ANNE 1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8717	D:6HAYES -6YORKTWN1 +6HARBORV-6CRITTON1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8718	D:6HAYES -6YORKTWN1 +6LK KING-1LAKINGB1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8719	D:6HAYES -6YORKTWN1 +6LK KING-1LAKINGB1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8720	D:6HAYES -6YORKTWN1 +6LYNHAVN-6VA BCH 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8721	D:6HAYES -6YORKTWN1 +6LYNHAVN-6THALIA 1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8722	D:6HAYES -6YORKTWN1 +6LYNHAVN-6LYNHA 11
314180	GHAYES	230.0	345	354	0.9083	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8723	D:6HAYES -6YORKTWN1 +3MCLAUGH-3REEVES 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8724	D:6HAYES -6YORKTWN1 +3ORAKWOOD-3TAUSSIG1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8725	D:6HAYES -6YORKTWN1 +3ORAKWOOD-3THOLE S1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8726	D:6HAYES -6YORKTWN1 +6VA BCH -3VA BCH 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8727	D:6HAYES -6YORKTWN1 +6VA BCH -3VA BCH 2
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8728	D:6HAYES -6YORKTWN1 +3PENDLTH-3VA BCH 1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8729	D:6HAYES -6YORKTWN1 +3REEVES -3REEVE 11
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8730	D:6HAYES -6YORKTWN1 +3REEVES -6REEVES 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8731	D:6HAYES -6YORKTWN1 +3REEVES -6REEVES 2
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8732	D:6HAYES -6YORKTWN1 +6REEVES -6RURITANI
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8733	D:6HAYES -6YORKTWN1 +6REEVES -6REEVE 11
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8734	D:6HAYES -6YORKTWN1 +6RURITAN-6SNORFLK1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8735	D:6HAYES -6YORKTWN1 +3SEWISPT-3TAUSSIG1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8736	D:6HAYES -6YORKTWN1 +3SEWISPT-3THOLE S1

Bus #	Bus Name	KV	Area	Zone	ContVlt	BaseVlt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8737	D:GHAYES -6YORKTWN1 +3SEWISPT-6SEWISPT1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8738	D:GHAYES -6YORKTWN1 +3SEWISPT-6SEWISPT2
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8739	D:GHAYES -6YORKTWN1 +6SEWISPT-6NAVYS 1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8740	D:GHAYES -6YORKTWN1 +6SEWISPT-6NAVYS 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8741	D:GHAYES -6YORKTWN1 +6SNORFLK-6THRS2791
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8742	D:GHAYES -6YORKTWN1 +6NAVYS -6NAVYN 1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8743	D:GHAYES -6YORKTWN1 +6NAVYS -6NAVYN 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8744	D:GHAYES -6YORKTWN1 +6STUMFY -6THRS2791
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8745	D:GHAYES -6YORKTWN1 +3THOLE 8-3THOLE 11
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8746	D:GHAYES -6YORKTWN1 +6THRS279-6YADKIN 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8747	D:GHAYES -6YORKTWN1 +3VA BCH -3VA BC 11
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8748	D:GHAYES -6YORKTWN1 +3YADKIN -6YADKIN 1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8749	D:GHAYES -6YORKTWN1 +6YADKIN -6YADKIN 11
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8750	D:GHAYES -6YORKTWN1 +6YADKIN -8YADKIN 1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8751	D:GHAYES -6YORKTWN1 +6YADKIN -8YADKIN 2
314180	GHAYES	230.0	345	354	0.9083	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8752	D:GHAYES -6YORKTWN1 +6YADKIN -6SUFFOLK1
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8753	D:GHAYES -6YORKTWN1 +6CHCKTUK-6KINGSFO1
314180	GHAYES	230.0	345	354	0.9075	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8754	D:GHAYES -6YORKTWN1 +6CHCKTUK-6SURY 1
314180	GHAYES	230.0	345	354	0.9064	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8755	D:GHAYES -6YORKTWN1 +6CHCKTUK-6CHCKT 11
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8756	D:GHAYES -6YORKTWN1 +6CRITITH-6SURY 1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8757	D:GHAYES -6YORKTWN1 +3FRANKIN -3UNCAMP 1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8758	D:GHAYES -6YORKTWN1 +3FRANKIN -3WATKINS1
314180	GHAYES	230.0	345	354	0.9072	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8759	D:GHAYES -6YORKTWN1 +6KINGSFO-6SUFFOLK1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8760	D:GHAYES -6YORKTWN1 +3HANDSON-3S HAMPT1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8761	D:GHAYES -6YORKTWN1 +3HOLLAND-3SUFFOLK1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8762	D:GHAYES -6YORKTWN1 +3MYRTLE -3WINDSOR1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8763	D:GHAYES -6YORKTWN1 +3OKR123-3SUFFOLK1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8764	D:GHAYES -6YORKTWN1 +6SMITFLD-6SURY 1
314180	GHAYES	230.0	345	354	0.9083	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8765	D:GHAYES -6YORKTWN1 +3S HAMPT-3WATKINS1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8766	D:GHAYES -6YORKTWN1 +3S HAMPT-1SHAMPT11
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8767	D:GHAYES -6YORKTWN1 +3SUFFOLK-3SUFFOLK21
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8768	D:GHAYES -6YORKTWN1 +3SUFFOLK-3SUFFOLK2
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8769	D:GHAYES -6YORKTWN1 +3SUFFOLK-3SUFFOLK2
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8770	D:GHAYES -6YORKTWN1 +3SUFFOLK-3SUFFOLK2
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8771	D:GHAYES -6YORKTWN1 +3SUFFOLK-3SUFFOLK2
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8772	D:GHAYES -6YORKTWN1 +3SUFFOLK-6SUFFOLK2
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8773	D:GHAYES -6YORKTWN1 +3SUFFOLK-6SUFFOLK2
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8774	D:GHAYES -6YORKTWN1 +3SUFFOLK-6SUFFOLK3
314180	GHAYES	230.0	345	354	0.9077	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8775	D:GHAYES -6YORKTWN1 +6SUFFOLK-8SUFFOLK1
314180	GHAYES	230.0	345	354	0.9077	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8776	D:GHAYES -6YORKTWN1 +6SUFFOLK-8SUFFOLK2
314180	GHAYES	230.0	345	354	0.9085	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8777	D:GHAYES -6YORKTWN1 +6SUFFOLK-8SUFFOLK2
314180	GHAYES	230.0	345	354	0.9076	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8778	D:GHAYES -6YORKTWN1 +6SUFFOLK-8SUFFOLK2
314180	GHAYES	230.0	345	354	0.9076	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8779	D:GHAYES -6YORKTWN1 +6SUFFOLK-8SUFFOLK2
314180	GHAYES	230.0	345	354	0.9049	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8780	D:GHAYES -6YORKTWN1 +6SUFFOLK-8SUFFOLK2
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8781	D:GHAYES -6YORKTWN1 +3UNCAMP -1SURY 11
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8782	D:GHAYES -6YORKTWN1 +3WATKINS-3WATK1 11
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8783	D:GHAYES -6YORKTWN1 +3WATKINS-3WATK1 21

Bus #	Bus Name	KV	Area	Zone	ContVlt	BaseVlt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8784	D:GHAYES -6YORKTWN1 +6GRAVELA-1GRAVEL31
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8785	D:GHAYES -6YORKTWN1 +6GRAVELA-1GRAVEL41
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8786	D:GHAYES -6YORKTWN1 +6GRAVELA-1GRAVEL51
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8787	D:GHAYES -6YORKTWN1 +6GRAVELA-1GRAVEL61
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8788	D:GHAYES -6YORKTWN1 +8LOUDDO-18LOUDDO1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8789	D:GHAYES -6YORKTWN1 +8MORRS-18MORRSV11
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8790	D:GHAYES -6YORKTWN1 +8MT ST 1-8MT STM 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8791	D:GHAYES -6YORKTWN1 +8MT ST 2-8MT STM 1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8792	D:GHAYES -6YORKTWN1 +8BRISTER-8CHANCE 1
314180	GHAYES	230.0	345	354	0.9077	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8793	D:GHAYES -6YORKTWN1 +8BRISTER-8MORRSV11
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8794	D:GHAYES -6YORKTWN1 +8BATH CO-8VALLEY 1
314180	GHAYES	230.0	345	354	0.9088	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8795	D:GHAYES -6YORKTWN1 +8BATH CO-8LEXNGTNI
314180	GHAYES	230.0	345	354	0.9088	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8796	D:GHAYES -6YORKTWN1 +8BATH CO-8VALLEY 1
314180	GHAYES	230.0	345	354	0.9077	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8797	D:GHAYES -6YORKTWN1 +8BATH CO-8VALLEY 1
314180	GHAYES	230.0	345	354	0.9088	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8798	D:GHAYES -6YORKTWN1 +8BATH CO-8VALLEY 1
314180	GHAYES	230.0	345	354	0.9071	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8799	D:GHAYES -6YORKTWN1 +8BATH CO-8VALLEY 1
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8800	D:GHAYES -6YORKTWN1 +8CARSON -8CLOVER 1
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8801	D:GHAYES -6YORKTWN1 +8CARSON -8FIVEFRK1
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8802	D:GHAYES -6YORKTWN1 +8CARSON -8FIVEFRK1
314180	GHAYES	230.0	345	354	0.9078	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8803	D:GHAYES -6YORKTWN1 +8CARSON -8FIVEFRK1
314180	GHAYES	230.0	345	354	0.9076	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8804	D:GHAYES -6YORKTWN1 +8CHICKAH-8ELMONT 1
314180	GHAYES	230.0	345	354	0.9068	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8805	D:GHAYES -6YORKTWN1 +8CHICKAH-8ELMONT 1
314180	GHAYES	230.0	345	354	0.9068	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8806	D:GHAYES -6YORKTWN1 +8CHICKAH-8ELMONT 1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8807	D:GHAYES -6YORKTWN1 +8CLIFTON-8LOUDDO1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8808	D:GHAYES -6YORKTWN1 +8CLIFTON-8LOUDDO1
314180	GHAYES	230.0	345	354	0.9058	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8809	D:GHAYES -6YORKTWN1 +8DOOMS -8CUNNING1
314180	GHAYES	230.0	345	354	0.9084	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8810	D:GHAYES -6YORKTWN1 +8DOOMS -8CUNNING1
314180	GHAYES	230.0	345	354	0.9084	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8811	D:GHAYES -6YORKTWN1 +8DOOMS -8VALLEY 1
314180	GHAYES	230.0	345	354	0.9052	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8812	D:GHAYES -6YORKTWN1 +8ELMONT -8CUNNING1
314180	GHAYES	230.0	345	354	0.9065	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8813	D:GHAYES -6YORKTWN1 +8ELMONT -8LDYSMTN1
314180	GHAYES	230.0	345	354	0.9076	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8814	D:GHAYES -6YORKTWN1 +8FENTRES-8TADKIN 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8815	D:GHAYES -6YORKTWN1 +8CUNNING-1CUNINGA1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8816	D:GHAYES -6YORKTWN1 +8CUNNING-1CUNINGA1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8817	D:GHAYES -6YORKTWN1 +8CUNNING-1CUNINGA1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8818	D:GHAYES -6YORKTWN1 +8CUNNING-1CUNINGA1
314180	GHAYES	230.0	345	354	0.9074	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8819	D:GHAYES -6YORKTWN1 +8LDYSMTN-8NO ANNA1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8820	D:GHAYES -6YORKTWN1 +8LDYSMTN-8FOSSUM 1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8821	D:GHAYES -6YORKTWN1 +8LOUDDO-8MORRSV11
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8822	D:GHAYES -6YORKTWN1 +8LOUDDO-8BRABALE1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8823	D:GHAYES -6YORKTWN1 +8MOLTHAN-8NO ANNA1
314180	GHAYES	230.0	345	354	0.9072	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8824	D:GHAYES -6YORKTWN1 +8FIVEFRK-8SEPTA 1
314180	GHAYES	230.0	345	354	0.9080	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8825	D:GHAYES -6YORKTWN1 +8MORRSV1-8NO ANNA1
314180	GHAYES	230.0	345	354	0.9076	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8826	D:GHAYES -6YORKTWN1 +8MORRSV1-8FRONT R1
314180	GHAYES	230.0	345	354	0.9077	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8827	D:GHAYES -6YORKTWN1 +8MT STM -8VALLEY 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8828	D:GHAYES -6YORKTWN1 +8MT STM -3M STORM1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8829	D:GHAYES -6YORKTWN1 +8MT STM -1MT STM1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8830	D:GHAYES -6YORKTWN1 +8MT STM -1MT STM21

Bus #	Bus Name	KV	Area	Zone	ContVlt	BaseVlt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8831	D:GHAYES -6YORKTWN1 +8MT STM -1MT STM31
314180	GHAYES	230.0	345	354	0.9077	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8832	D:GHAYES -6YORKTWN1 +8NO ANNA-1W ANNA11
314180	GHAYES	230.0	345	354	0.9077	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8833	D:GHAYES -6YORKTWN1 +8NO ANNA-1N ANNA21
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8834	D:GHAYES -6YORKTWN1 +8OX -8POSSUM 1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8835	D:GHAYES -6YORKTWN1 +3M STORM-3N BRANCH1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8836	D:GHAYES -6YORKTWN1 +8SEPTA -8SURREY 1
314180	GHAYES	230.0	345	354	0.9082	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8837	D:GHAYES -6YORKTWN1 +8SEPTA -8YADKIN 1
314180	GHAYES	230.0	345	354	0.9074	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8838	D:GHAYES -6YORKTWN1 +8SURREY -1SUNNY 21
314180	GHAYES	230.0	345	354	0.9075	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8839	D:GHAYES -6YORKTWN1 +8SURREY -1SUNNY 21
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8840	D:GHAYES -6YORKTWN1 +8PL VIEW-8BRAMBLE1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8841	D:GHAYES -6YORKTWN1 +8YADKIN -8SULFOLK1
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8842	D:GHAYES -6YORKTWN1 +8FRONT R-1FRNT RY1
314180	GHAYES	230.0	345	354	0.9079	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8843	D:GHAYES -6YORKTWN1 +6YADKIN -8YADKIN 3
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8844	D:GHAYES -6YORKTWN1 +3YADKIN -6YADKIN 2
314180	GHAYES	230.0	345	354	0.9081	1.0085	0.9300	1.0700	0.9581	1.0589	LD	8845	D:GHAYES -6YORKTWN1 +3CHESAPN-6CHESAPK2
314189	GPAPERMI	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	8873	D:3NORNECK-6NORNECK1 +6CORRECTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	8873	D:3NORNECK-6NORNECK1 +6CORRECTN-6LANEXA 1
314189	GPAPERMI	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	9162	D:3NORNECK-6NORNECK2 +6CORRECTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	9162	D:3NORNECK-6NORNECK2 +6CORRECTN-6LANEXA 1
314176	GHARMONY	230.0	345	354	0.9060	1.0040	0.9300	1.0700	0.9538	1.0542	LD	9450	D:6NORNECK-6SANDERS1 +6CORRECTN-6LANEXA 1
314189	GPAPERMI	230.0	345	354	0.8998	1.0014	0.9300	1.0700	0.9513	1.0515	LD	9450	D:6NORNECK-6SANDERS1 +6CORRECTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8994	1.0020	0.9300	1.0700	0.9519	1.0521	LD	9450	D:6NORNECK-6SANDERS1 +6CORRECTN-6LANEXA 1
314176	GHARMONY	230.0	345	354	0.9045	1.0040	0.9300	1.0700	0.9538	1.0542	LD	9737	D:6SANDERS-6WESTHORI +6CORRECTN-6LANEXA 1
314189	GPAPERMI	230.0	345	354	0.8979	1.0014	0.9300	1.0700	0.9513	1.0515	LD	9737	D:6SANDERS-6WESTHORI +6CORRECTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8512	1.0040	0.9300	1.0700	0.9538	1.0542	LD	10001	D:3SHACKLE-3WEST PT1 +6CORRECTN-6LANEXA 1
314189	GPAPERMI	230.0	345	354	0.8458	1.0014	0.9300	1.0700	0.9513	1.0515	LD	10001	D:3SHACKLE-3WEST PT1 +6PAPERMI-6CORRECTN1
314176	GHARMONY	230.0	345	354	0.8570	1.0040	0.9300	1.0700	0.9538	1.0542	LD	10023	D:3SHACKLE-3WEST PT1 +6CORRECTN-6LANEXA 1
314189	GPAPERMI	230.0	345	354	0.8503	1.0014	0.9300	1.0700	0.9513	1.0515	LD	10023	D:3SHACKLE-3WEST PT1 +6CORRECTN-6LANEXA 1
314189	GPAPERMI	230.0	345	354	0.8599	1.0014	0.9300	1.0700	0.9513	1.0515	LD	10023	D:3SHACKLE-3WEST PT1 +6CORRECTN-6LANEXA 1
314189	GPAPERMI	230.0	345	354	0.8503	1.0014	0.9300	1.0700	0.9513	1.0515	LD	10023	D:3SHACKLE-3WEST PT1 +6CORRECTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8499	1.0020	0.9300	1.0700	0.9519	1.0521	LD	10023	D:3SHACKLE-3WEST PT1 +6CORRECTN-6LANEXA 1
314176	GHARMONY	230.0	345	354	0.8727	1.0040	0.9300	1.0700	0.9538	1.0542	LD	10286	D:3WEST PT-3LANEXA 1 +6PAPERMI-6CORRECTN1
314189	GPAPERMI	230.0	345	354	0.8675	1.0014	0.9300	1.0700	0.9513	1.0515	LD	10286	D:3WEST PT-3LANEXA 1 +6PAPERMI-6CORRECTN1
314174	GHARMONY	115.0	345	354	0.8481	0.9972	0.9300	1.0700	0.9473	1.0471	LD	10308	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314176	GHARMONY	230.0	345	354	0.7860	1.0040	0.9300	1.0700	0.9538	1.0542	LD	10308	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314184	SHACKLE	115.0	345	354	0.8417	0.9935	0.9300	1.0700	0.9436	1.0431	LD	10308	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314187	3WAN 176	115.0	345	354	0.8417	0.9935	0.9300	1.0700	0.9436	1.0431	LD	10308	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314188	3WEST PT	115.0	345	354	0.8387	0.9916	0.9300	1.0700	0.9420	1.0412	LD	10308	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314189	GPAPERMI	230.0	345	354	0.8784	1.0014	0.9300	1.0700	0.9513	1.0515	LD	10308	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314191	3WHITE S	115.0	345	354	0.8444	0.9942	0.9300	1.0700	0.9444	1.0439	LD	10308	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.7780	1.0020	0.9300	1.0700	0.9519	1.0521	LD	10308	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314385	3HARMO 1	115.0	345	354	0.8486	0.9979	0.9300	1.0700	0.9480	1.0478	LD	10308	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314395	3HARMO 2	115.0	345	354	0.8485	0.9977	0.9300	1.0700	0.9478	1.0476	LD	10308	D:3WEST PT-3LANEXA 1 +6CORRECTN-6LANEXA 1
314189	GPAPERMI	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	10875	D:3OAKRIDGE-3OAKR1 11 +6CORRECTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	10875	D:3OAKRIDGE-3OAKR1 11 +6CORRECTN-6LANEXA 1
314189	GPAPERMI	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	11157	D:3OAKRIDGE-3KINGS PT +6CORRECTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	11157	D:3OAKRIDGE-3KINGS PT +6CORRECTN-6LANEXA 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Noon	Contingency Description
314189	6PAPERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	11438	D: 30AKRIDG-30AKR12321+6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	11438	D: 30AKRIDG-30AKR12321+6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	11718	D: 1GOSFORT-3GOSPORT1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	11718	D: 1GOSFORT-3GOSPORT1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	11997	D: 1GOSFORT-1GOSPORT1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	11997	D: 1GOSFORT-1GOSPORT1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	12275	D: 1GOSFORT-1GOSPORT1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	12275	D: 1GOSFORT-1GOSPORT1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	12552	D: 1GOSFORT-1GOSPORT1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	12552	D: 1GOSFORT-1GOSPORT1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	12828	D: 6BIRDNEC-6LANDSTN1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	12828	D: 6BIRDNEC-6LANDSTN1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	13103	D: 6BIRDNEC-6VA BCH 1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	13103	D: 6BIRDNEC-6VA BCH 1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	13377	D: 6PENNIMA-6KINGS M1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	13377	D: 6PENNIMA-6KINGS M1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	13650	D: 6PENNIMA-6WALR2091 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	13650	D: 6PENNIMA-6WALR2091 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	13922	D: 3S2T767A-3BURN761 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	13922	D: 3S2T767A-3BURN761 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	14193	D: 3S2T767B-3AMPB671 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	14193	D: 3S2T767B-3AMPB671 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	14463	D: 3S2T767B-3BURN761 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	14463	D: 3S2T767B-3BURN761 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	14732	D: 3S2T767B-30AKW001 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	14732	D: 3S2T767B-30AKW001 +6CORRCTN-6LANEXA 1
314176	6HARMONY	230.0	345	354	0.9005	1.0040	0.9300	1.0700	0.9538	1.0542	LD	15000	D: 3AMOCO Y-3YORKTWN1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.8942	1.0014	0.9300	1.0700	0.9513	1.0515	LD	15000	D: 3AMOCO Y-3YORKTWN1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8939	1.0020	0.9300	1.0700	0.9519	1.0521	LD	15000	D: 3AMOCO Y-3YORKTWN1 +6CORRCTN-6LANEXA 1
314176	6HARMONY	230.0	345	354	0.8968	1.0040	0.9300	1.0700	0.9538	1.0542	LD	15533	D: 3COLONY-3WAWICK1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.8925	1.0014	0.9300	1.0700	0.9513	1.0515	LD	15533	D: 3COLONY-3WAWICK1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8923	1.0020	0.9300	1.0700	0.9519	1.0521	LD	15533	D: 3COLONY-3WAWICK1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	15798	D: 3COLONY-3YORKTWN1 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9062	1.0020	0.9300	1.0700	0.9519	1.0521	LD	15798	D: 3COLONY-3YORKTWN1 +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16062	D: 3COPELND-3NEWS751 +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16062	D: 3COPELND-3NEWS751 +6CORRCTN-6LANEXA 1
314176	6HARMONY	230.0	345	354	0.8951	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16325	D: 3COPELND-3WHEALTNI +6CORRCTN-6LANEXA 1
314189	6PAPERMILL	230.0	345	354	0.8947	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16325	D: 3COPELND-3WHEALTNI +6CORRCTN-6LANEXA 1
314375	6CORRCTN	230.0	345	354	0.8994	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16588	D: 6CORRCTN-6LANEXA 1 +6DENBIGH-6WALR2851
314176	6HARMONY	230.0	345	354	0.8994	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16588	D: 6CORRCTN-6LANEXA 1 +6DENBIGH-6WALR2851
314189	6PAPERMILL	230.0	345	354	0.8991	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16589	D: 6CORRCTN-6LANEXA 1 +6DENBIGH-6YORKTWN1
314375	6CORRCTN	230.0	345	354	0.8973	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16589	D: 6CORRCTN-6LANEXA 1 +6DENBIGH-6YORKTWN1
314189	6PAPERMILL	230.0	345	354	0.9025	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16590	D: 6CORRCTN-6LANEXA 1 +3DOW 34 -3FTUUS341
314375	6CORRCTN	230.0	345	354	0.8963	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16590	D: 6CORRCTN-6LANEXA 1 +3DOW 34 -3FTUUS341
314189	6PAPERMILL	230.0	345	354	0.8959	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16590	D: 6CORRCTN-6LANEXA 1 +3DOW 34 -3FTUUS341
314375	6CORRCTN	230.0	345	354	0.8959	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16590	D: 6CORRCTN-6LANEXA 1 +3DOW 34 -3FTUUS341

Bus #	Bus Name	KV	Area	Zone	ContiVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314176	GHARMONY	230.0	345	354	0.9020	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16591	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8958	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16591	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8958	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16591	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.9065	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16592	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.9061	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16592	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314176	GHARMONY	230.0	345	354	0.8958	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16593	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8958	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16593	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8958	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16593	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8958	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16594	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8958	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16594	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.9065	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16595	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16595	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314176	GHARMONY	230.0	345	354	0.8958	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16596	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8958	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16596	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8958	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16596	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8958	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16597	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8958	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16597	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8958	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16598	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8958	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16598	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8958	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16599	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8958	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16599	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314176	GHARMONY	230.0	345	354	0.8947	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16600	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8947	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16600	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8947	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16600	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8978	1.0014	0.9300	1.0700	0.9538	1.0542	LD	16601	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8978	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16601	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8978	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16602	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8978	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16602	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8978	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16603	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8978	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16603	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8978	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16604	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8978	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16604	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8978	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16605	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8978	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16605	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8978	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16606	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8978	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16606	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8978	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16607	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8978	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16607	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314189	GPAPERMILL	230.0	345	354	0.8978	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16608	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1
314375	GCORCTN	230.0	345	354	0.8978	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16608	D:6CORRCTN-6LANEXA 1 +3DOW 34 -31LANEXA 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Neon	Contingency Description
314375	GCORCTN	230.0		354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16608	D:GCORCTN-GLANEXA 1 +3MAGRUDR-3PENINSII
314189	GPAPERMI	230.0		354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16609	D:GCORCTN-GLANEXA 1 +3MAGRUDR-3SHELBNK1
314375	GCORCTN	230.0		354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16609	D:GCORCTN-GLANEXA 1 +3MAGRUDR-3SHELBNK1
314176	GHARMONY	230.0		354	0.9080	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16610	D:GCORCTN-GLANEXA 1 +3MERCURY-3SHELBNK1
314189	GPAPERMI	230.0		354	0.9018	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16610	D:GCORCTN-GLANEXA 1 +3MERCURY-3SHELBNK1
314375	GCORCTN	230.0		354	0.9015	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16610	D:GCORCTN-GLANEXA 1 +3MERCURY-3SHELBNK1
314189	GPAPERMI	230.0		354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16611	D:GCORCTN-GLANEXA 1 +3NESA -3PENINSII
314375	GCORCTN	230.0		354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16611	D:GCORCTN-GLANEXA 1 +3NESA -3PENINSII
314189	GPAPERMI	230.0		354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16612	D:GCORCTN-GLANEXA 1 +3NESA -3PENINSII
314375	GCORCTN	230.0		354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16612	D:GCORCTN-GLANEXA 1 +3NESA -3PENINSII
314176	GHARMONY	230.0		354	0.8948	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16613	D:GCORCTN-GLANEXA 1 +3NNWS58-3TOANOS81
314189	GPAPERMI	230.0		354	0.8885	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16613	D:GCORCTN-GLANEXA 1 +3NNWS58-3TOANOS81
314375	GCORCTN	230.0		354	0.8881	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16613	D:GCORCTN-GLANEXA 1 +3NNWS58-3TOANOS81
314176	GHARMONY	230.0		354	0.8865	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16614	D:GCORCTN-GLANEXA 1 +6NP NEWS-6PEMBROK1
314189	GPAPERMI	230.0		354	0.8801	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16614	D:GCORCTN-GLANEXA 1 +6NP NEWS-6PEMBROK1
314375	GCORCTN	230.0		354	0.8797	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16614	D:GCORCTN-GLANEXA 1 +6NP NEWS-6PEMBROK1
314176	GHARMONY	230.0		354	0.9038	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16615	D:GCORCTN-GLANEXA 1 +6NP NEWS-6NP NE 11
314189	GPAPERMI	230.0		354	0.8976	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16615	D:GCORCTN-GLANEXA 1 +6NP NEWS-6NP NE 11
314375	GCORCTN	230.0		354	0.8973	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16615	D:GCORCTN-GLANEXA 1 +6NP NEWS-6NP NE 11
314176	GHARMONY	230.0		354	0.8863	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16616	D:GCORCTN-GLANEXA 1 +6PEMBROK-6SHELBNK1
314189	GPAPERMI	230.0		354	0.8799	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16616	D:GCORCTN-GLANEXA 1 +6PEMBROK-6SHELBNK1
314375	GCORCTN	230.0		354	0.8796	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16616	D:GCORCTN-GLANEXA 1 +6PEMBROK-6SHELBNK1
314189	GPAPERMI	230.0		354	0.9064	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16617	D:GCORCTN-GLANEXA 1 +3PENINSII-3SEAFD761
314375	GCORCTN	230.0		354	0.9060	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16617	D:GCORCTN-GLANEXA 1 +3PENINSII-3SEAFD761
314176	GHARMONY	230.0		354	0.9064	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16618	D:GCORCTN-GLANEXA 1 +3PENINSII-3SEAFD791
314375	GCORCTN	230.0		354	0.9060	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16618	D:GCORCTN-GLANEXA 1 +3PENINSII-3SEAFD791
314189	GPAPERMI	230.0		354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16619	D:GCORCTN-GLANEXA 1 +3PENINSII-3U CARB01
314375	GCORCTN	230.0		354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16619	D:GCORCTN-GLANEXA 1 +3PENINSII-3U CARB01
314176	GHARMONY	230.0		354	0.9041	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16620	D:GCORCTN-GLANEXA 1 +3PENINSII-3PENIN 11
314189	GPAPERMI	230.0		354	0.8979	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16620	D:GCORCTN-GLANEXA 1 +3PENINSII-3PENIN 11
314375	GCORCTN	230.0		354	0.8976	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16620	D:GCORCTN-GLANEXA 1 +3PENINSII-3PENIN 11
314189	GPAPERMI	230.0		354	0.9061	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16621	D:GCORCTN-GLANEXA 1 +3PENINSII-6PENINSII
314375	GCORCTN	230.0		354	0.9058	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16621	D:GCORCTN-GLANEXA 1 +3PENINSII-6PENINSII
314176	GHARMONY	230.0		354	0.9059	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16622	D:GCORCTN-GLANEXA 1 +6PENINSII-6SHELBNK1
314375	GCORCTN	230.0		354	0.9056	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16622	D:GCORCTN-GLANEXA 1 +6PENINSII-6SHELBNK1
314189	GPAPERMI	230.0		354	0.9025	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16623	D:GCORCTN-GLANEXA 1 +6PENINSII-6TABB 1
314375	GCORCTN	230.0		354	0.8963	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16623	D:GCORCTN-GLANEXA 1 +6PENINSII-6TABB 1
314176	GHARMONY	230.0		354	0.8959	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16624	D:GCORCTN-GLANEXA 1 +3SEAFD76-3YORKTWN1
314189	GPAPERMI	230.0		354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16624	D:GCORCTN-GLANEXA 1 +3SEAFD76-3YORKTWN1
314375	GCORCTN	230.0		354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16625	D:GCORCTN-GLANEXA 1 +3SEAFD79-3YORKTWN1
314189	GPAPERMI	230.0		354	0.9071	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16625	D:GCORCTN-GLANEXA 1 +3SEAFD79-3YORKTWN1
314375	GCORCTN	230.0		354	0.9067	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16626	D:GCORCTN-GLANEXA 1 +3SHELBNK-3WHEALTW1
314176	GHARMONY	230.0		354	0.8960	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16627	D:GCORCTN-GLANEXA 1 +3SHELBNK-6SHELBNK1
314189	GPAPERMI	230.0		354	0.8897	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16627	D:GCORCTN-GLANEXA 1 +3SHELBNK-6SHELBNK1
314375	GCORCTN	230.0		354	0.8894	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16627	D:GCORCTN-GLANEXA 1 +3SHELBNK-6SHELBNK1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltLimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314189	GEAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16629	D:6CORRCTN-6LANEXA 1 +30 CARBD-3WHEALTNI
314375	GCORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16629	D:6CORRCTN-6LANEXA 1 +30 CARBD-3WHEALTNI
314176	GHARMONY	230.0	345	354	0.9046	1.0040	0.9300	1.0700	0.9538	0.9538	1.0542	LD	16630	D:6CORRCTN-6LANEXA 1 +30CARWICK-3WHEALTNI
314189	GEAPERMTL	230.0	345	354	0.9084	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16630	D:6CORRCTN-6LANEXA 1 +30CARWICK-3WHEALTNI
314375	GCORRCTN	230.0	345	354	0.8981	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16630	D:6CORRCTN-6LANEXA 1 +30CARWICK-3WHEALTNI
314176	GHARMONY	230.0	345	354	0.9047	1.0040	0.9300	1.0700	0.9538	0.9538	1.0542	LD	16631	D:6CORRCTN-6LANEXA 1 +6WARTWICK-6WHEALTNI
314189	GEAPERMTL	230.0	345	354	0.8985	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16631	D:6CORRCTN-6LANEXA 1 +6WARTWICK-6WHEALTNI
314375	GCORRCTN	230.0	345	354	0.9091	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16631	D:6CORRCTN-6LANEXA 1 +6WARTWICK-6WHEALTNI
314176	GHARMONY	230.0	345	354	0.9064	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16632	D:6CORRCTN-6LANEXA 1 +3WHEALTIN-6WHEALTNI
314189	GEAPERMTL	230.0	345	354	0.9060	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16632	D:6CORRCTN-6LANEXA 1 +3WHEALTIN-6WHEALTNI
314375	GCORRCTN	230.0	345	354	0.9060	1.0020	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16632	D:6CORRCTN-6LANEXA 1 +3WHEALTIN-6WHEALTNI
314176	GHARMONY	230.0	345	354	0.9062	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16633	D:6CORRCTN-6LANEXA 1 +3WHEALTIN-6WHEALTNI
314189	GEAPERMTL	230.0	345	354	0.9059	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16633	D:6CORRCTN-6LANEXA 1 +3WHEALTIN-6WHEALTNI
314375	GCORRCTN	230.0	345	354	0.9053	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16633	D:6CORRCTN-6LANEXA 1 +3WHEALTIN-6WHEALTNI
314176	GHARMONY	230.0	345	354	0.8991	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16634	D:6CORRCTN-6LANEXA 1 +6WHEALTIN-6WHEALTNI
314189	GEAPERMTL	230.0	345	354	0.8997	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16634	D:6CORRCTN-6LANEXA 1 +6WHEALTIN-6WHEALTNI
314375	GCORRCTN	230.0	345	354	0.9060	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16634	D:6CORRCTN-6LANEXA 1 +6WHEALTIN-6WHEALTNI
314176	GHARMONY	230.0	345	354	0.9060	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16635	D:6CORRCTN-6LANEXA 1 +6WHEALTIN-6WHEALTNI
314189	GEAPERMTL	230.0	345	354	0.8999	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16635	D:6CORRCTN-6LANEXA 1 +6WHEALTIN-6WHEALTNI
314375	GCORRCTN	230.0	345	354	0.8995	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16635	D:6CORRCTN-6LANEXA 1 +6WHEALTIN-6WHEALTNI
314176	GHARMONY	230.0	345	354	0.9059	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16636	D:6CORRCTN-6LANEXA 1 +6WHEALTIN-6WHEALTNI
314189	GEAPERMTL	230.0	345	354	0.8997	1.0020	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16636	D:6CORRCTN-6LANEXA 1 +6WHEALTIN-6WHEALTNI
314375	GCORRCTN	230.0	345	354	0.8994	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16636	D:6CORRCTN-6LANEXA 1 +6WHEALTIN-6WHEALTNI
314176	GHARMONY	230.0	345	354	0.9076	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16637	D:6CORRCTN-6LANEXA 1 +3YORKTWN-3YORK F81
314189	GEAPERMTL	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16637	D:6CORRCTN-6LANEXA 1 +3YORKTWN-3YORK F81
314375	GCORRCTN	230.0	345	354	0.9065	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16638	D:6CORRCTN-6LANEXA 1 +3YORKTWN-3YORK F81
314176	GHARMONY	230.0	345	354	0.9057	1.0040	0.9300	1.0700	0.9538	0.9538	1.0542	LD	16638	D:6CORRCTN-6LANEXA 1 +3YORKTWN-3YORK F81
314189	GEAPERMTL	230.0	345	354	0.8995	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16639	D:6CORRCTN-6LANEXA 1 +6YORKTWN-6YORKT 11
314375	GCORRCTN	230.0	345	354	0.8991	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16639	D:6CORRCTN-6LANEXA 1 +6YORKTWN-6YORKT 11
314176	GHARMONY	230.0	345	354	0.9076	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16640	D:6CORRCTN-6LANEXA 1 +6YORKTWN-6YORKT 11
314189	GEAPERMTL	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16640	D:6CORRCTN-6LANEXA 1 +6YORKTWN-6YORKT 11
314375	GCORRCTN	230.0	345	354	0.9065	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16641	D:6CORRCTN-6LANEXA 1 +6YORKTWN-6YORKT 11
314176	GHARMONY	230.0	345	354	0.9070	1.0020	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16642	D:6CORRCTN-6LANEXA 1 +3ALEX CR-3BOWERS 1
314189	GEAPERMTL	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16642	D:6CORRCTN-6LANEXA 1 +3ALEX CR-3BOWERS 1
314375	GCORRCTN	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16643	D:6CORRCTN-6LANEXA 1 +3STORE -3LONGC271
314176	GHARMONY	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16643	D:6CORRCTN-6LANEXA 1 +3STORE -3LONGC271
314189	GEAPERMTL	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16644	D:6CORRCTN-6LANEXA 1 +3STORE -3VA BCH 1
314375	GCORRCTN	230.0	345	354	0.9065	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16644	D:6CORRCTN-6LANEXA 1 +3STORE -3VA BCH 1
314176	GHARMONY	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16645	D:6CORRCTN-6LANEXA 1 +3BAYSIDE-3BURTN671
314189	GEAPERMTL	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16645	D:6CORRCTN-6LANEXA 1 +3BAYSIDE-3BURTN671
314375	GCORRCTN	230.0	345	354	0.9065	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16646	D:6CORRCTN-6LANEXA 1 +3BAYSIDE-3LONGC271
314176	GHARMONY	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16646	D:6CORRCTN-6LANEXA 1 +3BAYSIDE-3LONGC271
314189	GEAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16647	D:6CORRCTN-6LANEXA 1 +3BERKLS1-3GOSPORT1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16647	D:6CORRCTN-6LANEXA 1 +3BERKLS1-3GOSPORT1
314176	GHARMONY	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16648	D:6CORRCTN-6LANEXA 1 +3BERKLS1-3REEVES 1
314189	GEAPERMTL	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	0.9519	1.0521	LD	16648	D:6CORRCTN-6LANEXA 1 +3BERKLS1-3REEVES 1
314375	GCORRCTN	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16649	D:6CORRCTN-6LANEXA 1 +3BOWERS -3DEEPC871
314189	GEAPERMTL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	0.9513	1.0515	LD	16649	D:6CORRCTN-6LANEXA 1 +3BOWERS -3DEEPC871

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltBise	Viol	Ncon	Contingency Description
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16649	D:6CORRCTN-6LANEXA 1 +3BOWERS -3DEEPC871
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16650	D:6CORRCTN-6LANEXA 1 +3BOWERS -3HODGE F1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16650	D:6CORRCTN-6LANEXA 1 +3BOWERS -3HODGE F1
314189	6PAPERMTL	230.0	345	354	0.9072	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16651	D:6CORRCTN-6LANEXA 1 +6BOWERS -6CHRRIND1
314375	6CORRCTN	230.0	345	354	0.9068	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16651	D:6CORRCTN-6LANEXA 1 +6BOWERS -6CHRRIND1
314189	6PAPERMTL	230.0	345	354	0.9072	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16652	D:6CORRCTN-6LANEXA 1 +6BOWERS -6YADKIN 1
314375	6CORRCTN	230.0	345	354	0.9068	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16652	D:6CORRCTN-6LANEXA 1 +6BOWERS -6YADKIN 1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16653	D:6CORRCTN-6LANEXA 1 +3BURNIN67-3DAVIS671
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16653	D:6CORRCTN-6LANEXA 1 +3BURNIN67-3DAVIS671
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16654	D:6CORRCTN-6LANEXA 1 +3BURNIN67-3DAVIS271
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16654	D:6CORRCTN-6LANEXA 1 +3BURNIN67-3DAVIS271
314189	6PAPERMTL	230.0	345	354	0.9074	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16655	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3CMN GAS1
314375	6CORRCTN	230.0	345	354	0.9070	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16655	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3CMN GAS1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16656	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3GRADOCK1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16656	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3GRADOCK1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16657	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3DEEPC461
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16657	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3DEEPC461
314189	6PAPERMTL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16658	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3DEEPC871
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16658	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3DEEPC871
314189	6PAPERMTL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16659	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3DOZIER 1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16659	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3DOZIER 1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16660	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3GOSPORT1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16660	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3GOSPORT1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16661	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3REEVES 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16661	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3REEVES 1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16662	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3CHESPTX1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16662	D:6CORRCTN-6LANEXA 1 +3CHESAPK-3CHESPTX1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16663	D:6CORRCTN-6LANEXA 1 +6CHESAPK-6CHESPTX1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16663	D:6CORRCTN-6LANEXA 1 +6CHESAPK-6CHESPTX1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16664	D:6CORRCTN-6LANEXA 1 +6CHESAPK-6GRENWCH1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16664	D:6CORRCTN-6LANEXA 1 +6CHESAPK-6GRENWCH1
314189	6PAPERMTL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16665	D:6CORRCTN-6LANEXA 1 +6CHESAPK-6YADKIN 1
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16665	D:6CORRCTN-6LANEXA 1 +6CHESAPK-6YADKIN 1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16666	D:6CORRCTN-6LANEXA 1 +3CHESPTX-3HODGE F1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16666	D:6CORRCTN-6LANEXA 1 +3CHESPTX-3HODGE F1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16667	D:6CORRCTN-6LANEXA 1 +3CHRRIND-6CHRRIND1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16667	D:6CORRCTN-6LANEXA 1 +3CHRRIND-6CHRRIND1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16668	D:6CORRCTN-6LANEXA 1 +6CHRRIND-6HARBORV1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16668	D:6CORRCTN-6LANEXA 1 +6CHRRIND-6HARBORV1
314189	6PAPERMTL	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16669	D:6CORRCTN-6LANEXA 1 +6CHRRIND-6BLK KING1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16670	D:6CORRCTN-6LANEXA 1 +6CHRRIND-6BLK KING1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16671	D:6CORRCTN-6LANEXA 1 +6CHRRIND-6SEWISPT1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16671	D:6CORRCTN-6LANEXA 1 +6CHRRIND-6SEWISPT1
314189	6PAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16672	D:6CORRCTN-6LANEXA 1 +6CHRRIND-6SEWISPT2
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16672	D:6CORRCTN-6LANEXA 1 +6CHRRIND-6SEWISPT2

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	UpplLimit	VoltDrop	VoltBise	Viol	Ncon	Contingency Description
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16673	D:6CORRCTN-6LANEXA 1 +6CHRLIN-6CHRL 11
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16673	D:6CORRCTN-6LANEXA 1 +6CHRLIN-6CHRL 11
314189	GPAPERMTL	230.0	345	354	0.9074	1.0014	0.9300	1.0700	0.9513	1.0521	LD	16674	D:6CORRCTN-6LANEXA 1 +3CMN GAS-3GRASFLD1
314375	GCORRCTN	230.0	345	354	0.9070	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16674	D:6CORRCTN-6LANEXA 1 +3CMN GAS-3GRASFLD1
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16675	D:6CORRCTN-6LANEXA 1 +3CRADOCK-3REEVES 1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16675	D:6CORRCTN-6LANEXA 1 +3CRADOCK-3REEVES 1
314189	GPAPERMTL	230.0	345	354	0.9074	1.0014	0.9300	1.0700	0.9513	1.0521	LD	16676	D:6CORRCTN-6LANEXA 1 +3CRADOCK-3SHEA 1
314375	GCORRCTN	230.0	345	354	0.9070	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16676	D:6CORRCTN-6LANEXA 1 +3CRADOCK-3SHEA 1
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16677	D:6CORRCTN-6LANEXA 1 +3DAVIS67-3GRENWCHI
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16677	D:6CORRCTN-6LANEXA 1 +3DAVIS67-3GRENWCHI
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16678	D:6CORRCTN-6LANEXA 1 +3DAVIS127-3GRENWCHI
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16678	D:6CORRCTN-6LANEXA 1 +3DAVIS127-3GRENWCHI
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16679	D:6CORRCTN-6LANEXA 1 +3DEEPC46-3YADKIN 1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16679	D:6CORRCTN-6LANEXA 1 +3DEEPC46-3YADKIN 1
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16680	D:6CORRCTN-6LANEXA 1 +6DOZIER -6ELIZ R 1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16680	D:6CORRCTN-6LANEXA 1 +6DOZIER -6ELIZ R 1
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16681	D:6CORRCTN-6LANEXA 1 +6DOZIER -6GRENWCHI
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16681	D:6CORRCTN-6LANEXA 1 +6DOZIER -6GRENWCHI
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16682	D:6CORRCTN-6LANEXA 1 +6ELIZ R -6YADKIN 1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16682	D:6CORRCTN-6LANEXA 1 +6ELIZ R -6YADKIN 1
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16683	D:6CORRCTN-6LANEXA 1 +6ELIZ R -1ELIZAR11
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16683	D:6CORRCTN-6LANEXA 1 +6ELIZ R -1ELIZAR11
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16684	D:6CORRCTN-6LANEXA 1 +6ELIZ R -1ELIZAR21
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16684	D:6CORRCTN-6LANEXA 1 +6ELIZ R -1ELIZAR21
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16685	D:6CORRCTN-6LANEXA 1 +6ELIZ R -1ELIZAR31
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16685	D:6CORRCTN-6LANEXA 1 +6ELIZ R -1ELIZAR31
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16686	D:6CORRCTN-6LANEXA 1 +6FENTRES-6LANDSTN1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16686	D:6CORRCTN-6LANEXA 1 +6FENTRES-6LANDSTN1
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16687	D:6CORRCTN-6LANEXA 1 +6FENTRES-6THRS2791
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16687	D:6CORRCTN-6LANEXA 1 +6FENTRES-6THRS2791
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16688	D:6CORRCTN-6LANEXA 1 +6FENTRES-6HICKORY1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16688	D:6CORRCTN-6LANEXA 1 +6FENTRES-6HICKORY1
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0542	LD	16689	D:6CORRCTN-6LANEXA 1 +6FENTRES-6FENTR 11
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0515	LD	16689	D:6CORRCTN-6LANEXA 1 +6FENTRES-6FENTR 11
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0521	LD	16690	D:6CORRCTN-6LANEXA 1 +6FENTRES-6FENTR 21
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0515	LD	16690	D:6CORRCTN-6LANEXA 1 +6FENTRES-6FENTR 21
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16691	D:6CORRCTN-6LANEXA 1 +6FENTRES-8FENTRES1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16691	D:6CORRCTN-6LANEXA 1 +6FENTRES-8FENTRES1
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16692	D:6CORRCTN-6LANEXA 1 +6FENTRES-8FENTRES2
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16692	D:6CORRCTN-6LANEXA 1 +6FENTRES-8FENTRES2
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16693	D:6CORRCTN-6LANEXA 1 +3GREATER-3HICKORY1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16693	D:6CORRCTN-6LANEXA 1 +3GREATER-3HICKORY1
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16694	D:6CORRCTN-6LANEXA 1 +3GRASFLD-3GREAT BL
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16694	D:6CORRCTN-6LANEXA 1 +3GRASFLD-3GREAT BL
314189	GPAPERMTL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16695	D:6CORRCTN-6LANEXA 1 +6GRN RUN-6GRENWCHI
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0515	LD	16695	D:6CORRCTN-6LANEXA 1 +6GRN RUN-6GRENWCHI

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314375	GCORCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16695	D:GCORCTN-6LANEXA 1 +6GRN RUN-6GRENWCH1
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16696	D:GCORCTN-6LANEXA 1 +6GRN RUN-6LYNHAVN1
314375	GCORCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16696	D:GCORCTN-6LANEXA 1 +6GRN RUN-6LYNHAVN1
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16697	D:GCORCTN-6LANEXA 1 +3GRENWCH-3THOLE S1
314375	GCORCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16697	D:GCORCTN-6LANEXA 1 +3GRENWCH-3THOLE S1
314189	GPAPERML	230.0	345	354	0.9075	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16698	D:GCORCTN-6LANEXA 1 +3GRENWCH-3THOMPSN1
314375	GCORCTN	230.0	345	354	0.9072	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16698	D:GCORCTN-6LANEXA 1 +3GRENWCH-3THOMPSN1
314189	GPAPERML	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16699	D:GCORCTN-6LANEXA 1 +3GRENWCH-3GRENW 11
314375	GCORCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16699	D:GCORCTN-6LANEXA 1 +3GRENWCH-3GRENW 11
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16700	D:GCORCTN-6LANEXA 1 +3GRENWCH-6GRENWCH1
314375	GCORCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16700	D:GCORCTN-6LANEXA 1 +3GRENWCH-6GRENWCH1
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16701	D:GCORCTN-6LANEXA 1 +3GRENWCH-6GRENWCH2
314375	GCORCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16701	D:GCORCTN-6LANEXA 1 +3GRENWCH-6GRENWCH2
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16702	D:GCORCTN-6LANEXA 1 +6GRENWCH-6REEVES 1
314375	GCORCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16702	D:GCORCTN-6LANEXA 1 +6GRENWCH-6REEVES 1
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16703	D:GCORCTN-6LANEXA 1 +6GRENWCH-6THALIA 1
314375	GCORCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16703	D:GCORCTN-6LANEXA 1 +6GRENWCH-6THALIA 1
314176	GHARMONY	230.0	345	354	0.9064	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16704	D:GCORCTN-6LANEXA 1 +6GRENWCH-6GRENW 11
314189	GPAPERML	230.0	345	354	0.9062	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16704	D:GCORCTN-6LANEXA 1 +6GRENWCH-6GRENW 11
314375	GCORCTN	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16704	D:GCORCTN-6LANEXA 1 +6GRENWCH-6GRENW 11
314189	GPAPERML	230.0	345	354	0.9072	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16705	D:GCORCTN-6LANEXA 1 +6HARBORV-6YADKIN 1
314375	GCORCTN	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16705	D:GCORCTN-6LANEXA 1 +6HARBORV-6YADKIN 1
314189	GPAPERML	230.0	345	354	0.9072	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16706	D:GCORCTN-6LANEXA 1 +6HARBORV-6SMITFLD1
314375	GCORCTN	230.0	345	354	0.9068	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16706	D:GCORCTN-6LANEXA 1 +6HARBORV-6SMITFLD1
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16707	D:GCORCTN-6LANEXA 1 +3HICKORY-6HICKORY1
314375	GCORCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16707	D:GCORCTN-6LANEXA 1 +3HICKORY-6HICKORY1
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16708	D:GCORCTN-6LANEXA 1 +3IND PRK-3REEVES 1
314375	GCORCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16708	D:GCORCTN-6LANEXA 1 +3IND PRK-3REEVES 1
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16709	D:GCORCTN-6LANEXA 1 +3IND PRK-3THOLE S1
314375	GCORCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0515	LD	16709	D:GCORCTN-6LANEXA 1 +3IND PRK-3THOLE S1
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16710	D:GCORCTN-6LANEXA 1 +3LANDSTN-3P ANNE 1
314375	GCORCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16710	D:GCORCTN-6LANEXA 1 +3LANDSTN-3P ANNE 1
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16711	D:GCORCTN-6LANEXA 1 +3LANDSTN-6LANDSTN1
314375	GCORCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16711	D:GCORCTN-6LANEXA 1 +3LANDSTN-6LANDSTN1
314189	GPAPERML	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16712	D:GCORCTN-6LANEXA 1 +3LANDSTN-6LANDSTN2
314375	GCORCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16712	D:GCORCTN-6LANEXA 1 +3LANDSTN-6LANDSTN2
314189	GPAPERML	230.0	345	354	0.9071	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16713	D:GCORCTN-6LANEXA 1 +6HUNTSM-6THRS2791
314375	GCORCTN	230.0	345	354	0.9068	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16713	D:GCORCTN-6LANEXA 1 +6HUNTSM-6THRS2791
314189	GPAPERML	230.0	345	354	0.9071	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16714	D:GCORCTN-6LANEXA 1 +6HUNTSM-6SUFFOLK1
314375	GCORCTN	230.0	345	354	0.9072	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16714	D:GCORCTN-6LANEXA 1 +6HUNTSM-6SUFFOLK1
314189	GPAPERML	230.0	345	354	0.9067	1.0020	0.9300	1.0700	0.9513	1.0515	LD	16715	D:GCORCTN-6LANEXA 1 +6LANDSTN-6LYNHAVN1
314375	GCORCTN	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9519	1.0521	LD	16715	D:GCORCTN-6LANEXA 1 +6LANDSTN-6LYNHAVN1
314189	GPAPERML	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9513	1.0515	LD	16716	D:GCORCTN-6LANEXA 1 +6LANDSTN-6STUMPY 1
314375	GCORCTN	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16716	D:GCORCTN-6LANEXA 1 +6LANDSTN-6STUMPY 1
314189	GPAPERML	230.0	345	354	0.9065	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16717	D:GCORCTN-6LANEXA 1 +6LANDSTN-6W LAND 1
314375	GCORCTN	230.0	345	354	0.9070	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16717	D:GCORCTN-6LANEXA 1 +6LANDSTN-6W LAND 1
314189	GPAPERML	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16718	D:GCORCTN-6LANEXA 1 +6LANDSTN-6LANDS 11
314375	GCORCTN	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16718	D:GCORCTN-6LANEXA 1 +6LANDSTN-6LANDS 11

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314375	6CORRCTN	230.0	345	354	0.9062	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16718	D:6CORRCTN-6LANEXA 1 +6LANSTN-6LANDS 11
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16719	D:6CORRCTN-6LANEXA 1 +3LONDONB-3PENDULTN1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16719	D:6CORRCTN-6LANEXA 1 +3LONDONB-3PENDULTN1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16720	D:6CORRCTN-6LANEXA 1 +3LONDONB-3P ANNE 1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16720	D:6CORRCTN-6LANEXA 1 +3LONDONB-3P ANNE 1
314189	6PAPERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16721	D:6CORRCTN-6LANEXA 1 +6HARBORV-6CRITTDN1
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16721	D:6CORRCTN-6LANEXA 1 +6HARBORV-6CRITTDN1
314189	6PAPERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16722	D:6CORRCTN-6LANEXA 1 +6LK KING-1LKRTNGAL
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16722	D:6CORRCTN-6LANEXA 1 +6LK KING-1LKRTNGAL
314189	6PAPERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16723	D:6CORRCTN-6LANEXA 1 +6LK KING-1LKRTNGBI
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16723	D:6CORRCTN-6LANEXA 1 +6LK KING-1LKRTNGBI
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16724	D:6CORRCTN-6LANEXA 1 +6LYNHAVN-6VA BCH 1
314375	6CORRCTN	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16724	D:6CORRCTN-6LANEXA 1 +6LYNHAVN-6VA BCH 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16725	D:6CORRCTN-6LANEXA 1 +6LYNHAVN-6THALIA 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16725	D:6CORRCTN-6LANEXA 1 +6LYNHAVN-6THALIA 1
314176	6HARMONY	230.0	345	354	0.9063	1.0040	0.9300	1.0700	0.9536	1.0542	LD	16726	D:6CORRCTN-6LANEXA 1 +6LYNHAVN-6LYNHIA 11
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16726	D:6CORRCTN-6LANEXA 1 +6LYNHAVN-6LYNHIA 11
314375	6CORRCTN	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16726	D:6CORRCTN-6LANEXA 1 +6LYNHAVN-6LYNHIA 11
314189	6PAPERMILL	230.0	345	354	0.9073	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16727	D:6CORRCTN-6LANEXA 1 +3MCLAUGH-3REEVES 1
314375	6CORRCTN	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16727	D:6CORRCTN-6LANEXA 1 +3MCLAUGH-3REEVES 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16728	D:6CORRCTN-6LANEXA 1 +3OAKWOOD-3TAUSSIG1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16728	D:6CORRCTN-6LANEXA 1 +3OAKWOOD-3TAUSSIG1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16729	D:6CORRCTN-6LANEXA 1 +3OAKWOOD-3THOLE S1
314375	6CORRCTN	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9513	1.0521	LD	16729	D:6CORRCTN-6LANEXA 1 +3OAKWOOD-3THOLE S1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16730	D:6CORRCTN-6LANEXA 1 +6VA BCH -3VA BCH 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16730	D:6CORRCTN-6LANEXA 1 +6VA BCH -3VA BCH 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16731	D:6CORRCTN-6LANEXA 1 +6VA BCH -3VA BCH 2
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9513	1.0521	LD	16731	D:6CORRCTN-6LANEXA 1 +6VA BCH -3VA BCH 2
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16732	D:6CORRCTN-6LANEXA 1 +3PENDULTN-3VA BCH 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16732	D:6CORRCTN-6LANEXA 1 +3PENDULTN-3VA BCH 1
314189	6PAPERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16733	D:6CORRCTN-6LANEXA 1 +3REEVES -3REEVE 11
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16733	D:6CORRCTN-6LANEXA 1 +3REEVES -3REEVE 11
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16734	D:6CORRCTN-6LANEXA 1 +3REEVES -6REEVES 1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16734	D:6CORRCTN-6LANEXA 1 +3REEVES -6REEVES 1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16735	D:6CORRCTN-6LANEXA 1 +3REEVES -6REEVES 2
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16735	D:6CORRCTN-6LANEXA 1 +3REEVES -6REEVES 2
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16736	D:6CORRCTN-6LANEXA 1 +6RURITAN-6RURITAN1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16736	D:6CORRCTN-6LANEXA 1 +6RURITAN-6RURITAN1
314176	6HARMONY	230.0	345	354	0.9064	1.0040	0.9300	1.0700	0.9536	1.0542	LD	16737	D:6CORRCTN-6LANEXA 1 +6REEVES -6REEVE 11
314189	6PAPERMILL	230.0	345	354	0.9062	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16737	D:6CORRCTN-6LANEXA 1 +6REEVES -6REEVE 11
314375	6CORRCTN	230.0	345	354	0.9068	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16737	D:6CORRCTN-6LANEXA 1 +6REEVES -6REEVE 11
314189	6PAPERMILL	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9513	1.0515	LD	16738	D:6CORRCTN-6LANEXA 1 +6RURITAN-6SNORFLK1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16738	D:6CORRCTN-6LANEXA 1 +6RURITAN-6SNORFLK1
314189	6PAPERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16739	D:6CORRCTN-6LANEXA 1 +3SEWLSPT-3TAUSSIG1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16739	D:6CORRCTN-6LANEXA 1 +3SEWLSPT-3TAUSSIG1
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16740	D:6CORRCTN-6LANEXA 1 +3SEWLSPT-3THOLE S1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16740	D:6CORRCTN-6LANEXA 1 +3SEWLSPT-3THOLE S1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRaise	Viol	Ncon	Contingency Description
314189	GPAPERMLL	230.0		354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16741	D:6CORRCTN-6LANEXA 1 +3SEWLSPT-6SEWLSPT1
314375	GCORRCTN	230.0		354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16741	D:6CORRCTN-6LANEXA 1 +3SEWLSPT-6SEWLSPT1
314189	GPAPERMLL	230.0		354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16742	D:6CORRCTN-6LANEXA 1 +3SEWLSPT-6SEWLSPT2
314375	GCORRCTN	230.0		354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16742	D:6CORRCTN-6LANEXA 1 +3SEWLSPT-6SEWLSPT2
314189	GPAPERMLL	230.0		354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16743	D:6CORRCTN-6LANEXA 1 +6SEWLSPT-6NAVYS 1
314375	GCORRCTN	230.0		354	0.9067	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16743	D:6CORRCTN-6LANEXA 1 +6SEWLSPT-6NAVYS 1
314189	GPAPERMLL	230.0		354	0.9071	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16744	D:6CORRCTN-6LANEXA 1 +6SEWLSPT-6NAVYS1 1
314375	GCORRCTN	230.0		354	0.9068	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16744	D:6CORRCTN-6LANEXA 1 +6SEWLSPT-6NAVYS1 1
314189	GPAPERMLL	230.0		354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16745	D:6CORRCTN-6LANEXA 1 +6SNORFLR-6THRS2791
314375	GCORRCTN	230.0		354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16745	D:6CORRCTN-6LANEXA 1 +6SNORFLR-6THRS2791
314189	GPAPERMLL	230.0		354	0.9065	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16746	D:6CORRCTN-6LANEXA 1 +6NAVYS -6NAVYN 1
314375	GCORRCTN	230.0		354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16746	D:6CORRCTN-6LANEXA 1 +6NAVYS -6NAVYN 1
314189	GPAPERMLL	230.0		354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16747	D:6CORRCTN-6LANEXA 1 +6NAVYS1 -6NAVYN1 1
314375	GCORRCTN	230.0		354	0.9067	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16747	D:6CORRCTN-6LANEXA 1 +6NAVYS1 -6NAVYN1 1
314189	GPAPERMLL	230.0		354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16748	D:6CORRCTN-6LANEXA 1 +6STUMPY -6THRS2791
314375	GCORRCTN	230.0		354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16748	D:6CORRCTN-6LANEXA 1 +6STUMPY -6THRS2791
314189	GPAPERMLL	230.0		354	0.9066	1.0020	0.9300	1.0700	0.9513	1.0515	LD	16749	D:6CORRCTN-6LANEXA 1 +3THOLE S-3THOLE 11
314375	GCORRCTN	230.0		354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16749	D:6CORRCTN-6LANEXA 1 +3THOLE S-3THOLE 11
314189	GPAPERMLL	230.0		354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16750	D:6CORRCTN-6LANEXA 1 +6THRS279-6YADKIN 1
314375	GCORRCTN	230.0		354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16750	D:6CORRCTN-6LANEXA 1 +6THRS279-6YADKIN 1
314189	GPAPERMLL	230.0		354	0.9064	1.0020	0.9300	1.0700	0.9513	1.0515	LD	16751	D:6CORRCTN-6LANEXA 1 +3VA BCH -3VA BC 11
314375	GCORRCTN	230.0		354	0.9064	1.0020	0.9300	1.0700	0.9513	1.0515	LD	16751	D:6CORRCTN-6LANEXA 1 +3VA BCH -3VA BC 11
314189	GPAPERMLL	230.0		354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16752	D:6CORRCTN-6LANEXA 1 +3YADKIN -6YADKIN 1
314375	GCORRCTN	230.0		354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16752	D:6CORRCTN-6LANEXA 1 +3YADKIN -6YADKIN 1
314189	GPAPERMLL	230.0		354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16753	D:6CORRCTN-6LANEXA 1 +6YADKIN -6YADK1 11
314375	GCORRCTN	230.0		354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16753	D:6CORRCTN-6LANEXA 1 +6YADKIN -6YADK1 11
314189	GPAPERMLL	230.0		354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16754	D:6CORRCTN-6LANEXA 1 +6YADKIN -8YADKIN 1
314375	GCORRCTN	230.0		354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16754	D:6CORRCTN-6LANEXA 1 +6YADKIN -8YADKIN 1
314189	GPAPERMLL	230.0		354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16755	D:6CORRCTN-6LANEXA 1 +6YADKIN -8YADKIN 2
314375	GCORRCTN	230.0		354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16755	D:6CORRCTN-6LANEXA 1 +6YADKIN -8YADKIN 2
314189	GPAPERMLL	230.0		354	0.9072	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16756	D:6CORRCTN-6LANEXA 1 +6YADKIN -6SUFFOLK1
314375	GCORRCTN	230.0		354	0.9068	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16756	D:6CORRCTN-6LANEXA 1 +6YADKIN -6SUFFOLK1
314189	GPAPERMLL	230.0		354	0.9058	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16757	D:6CORRCTN-6LANEXA 1 +6CHCKTUK-6KINGSFOL
314375	GCORRCTN	230.0		354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16757	D:6CORRCTN-6LANEXA 1 +6CHCKTUK-6KINGSFOL
314189	GPAPERMLL	230.0		354	0.9062	1.0014	0.9300	1.0700	0.9519	1.0521	LD	16758	D:6CORRCTN-6LANEXA 1 +6CHCKTUK-6SURREY 1
314375	GCORRCTN	230.0		354	0.9062	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16758	D:6CORRCTN-6LANEXA 1 +6CHCKTUK-6SURREY 1
314176	GHARMONY	230.0		345	0.9076	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16759	D:6CORRCTN-6LANEXA 1 +6CHCKTUK-6CHCKT 11
314189	GPAPERMLL	230.0		354	0.9015	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16759	D:6CORRCTN-6LANEXA 1 +6CHCKTUK-6CHCKT 11
314375	GCORRCTN	230.0		354	0.9011	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16759	D:6CORRCTN-6LANEXA 1 +6CHCKTUK-6CHCKT 11
314189	GPAPERMLL	230.0		354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16760	D:6CORRCTN-6LANEXA 1 +6CRITTDN-6SURREY 1
314375	GCORRCTN	230.0		354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16760	D:6CORRCTN-6LANEXA 1 +6CRITTDN-6SURREY 1
314189	GPAPERMLL	230.0		354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16761	D:6CORRCTN-6LANEXA 1 +3FRANKLIN -3UNCAMP 1
314375	GCORRCTN	230.0		354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16761	D:6CORRCTN-6LANEXA 1 +3FRANKLIN -3UNCAMP 1
314189	GPAPERMLL	230.0		354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16762	D:6CORRCTN-6LANEXA 1 +3FRANKLIN -3WATKINS1
314375	GCORRCTN	230.0		354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16762	D:6CORRCTN-6LANEXA 1 +3FRANKLIN -3WATKINS1
314176	GHARMONY	230.0		345	0.9046	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16763	D:6CORRCTN-6LANEXA 1 +6KINGSFO-6SUFFOLK1
314189	GPAPERMLL	230.0		354	0.8984	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16763	D:6CORRCTN-6LANEXA 1 +6KINGSFO-6SUFFOLK1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314375	6CORRCTN	230.0	345	354	0.8981	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16763	D:6CORRCTN-6LANEXA 1 +6KINGSFO-6SUFFOLK1
314189	6PAPERMITL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16764	D:6CORRCTN-6LANEXA 1 +3HANDSON-3S HAMPT1
314375	6CORRCTN	230.0	345	354	0.9067	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16764	D:6CORRCTN-6LANEXA 1 +3HANDSON-3S HAMPT1
314189	6PAPERMITL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16765	D:6CORRCTN-6LANEXA 1 +3HOLLAND-3SUFFOLK1
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16765	D:6CORRCTN-6LANEXA 1 +3HOLLAND-3SUFFOLK1
314189	6PAPERMITL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16766	D:6CORRCTN-6LANEXA 1 +3HOLLAND-3UNCAMP 1
314375	6CORRCTN	230.0	345	354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16766	D:6CORRCTN-6LANEXA 1 +3HOLLAND-3UNCAMP 1
314189	6PAPERMITL	230.0	345	354	0.9065	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16767	D:6CORRCTN-6LANEXA 1 +3IVOR106-3OAKRI231
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16767	D:6CORRCTN-6LANEXA 1 +3IVOR106-3OAKRI231
314189	6PAPERMITL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16768	D:6CORRCTN-6LANEXA 1 +3MYRTLE-3WINDSOR1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16768	D:6CORRCTN-6LANEXA 1 +3MYRTLE-3WINDSOR1
314189	6PAPERMITL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16769	D:6CORRCTN-6LANEXA 1 +3OAKRI23-3SUFFCAP1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16769	D:6CORRCTN-6LANEXA 1 +3OAKRI23-3SUFFCAP1
314189	6PAPERMITL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16770	D:6CORRCTN-6LANEXA 1 +6SMITFLD-6SURREY 1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16770	D:6CORRCTN-6LANEXA 1 +6SMITFLD-6SURREY 1
314189	6PAPERMITL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16771	D:6CORRCTN-6LANEXA 1 +3S HAMPT-3WATKINS1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16771	D:6CORRCTN-6LANEXA 1 +3S HAMPT-3WATKINS1
314189	6PAPERMITL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16772	D:6CORRCTN-6LANEXA 1 +3S HAMPT-1SHAMPT11
314375	6CORRCTN	230.0	345	354	0.9068	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16772	D:6CORRCTN-6LANEXA 1 +3S HAMPT-1SHAMPT11
314189	6PAPERMITL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16773	D:6CORRCTN-6LANEXA 1 +3SUFFCAP-3SUFFOLK21
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9513	1.0515	LD	16773	D:6CORRCTN-6LANEXA 1 +3SUFFCAP-3SUFFOLK21
314189	6PAPERMITL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16774	D:6CORRCTN-6LANEXA 1 +3SUFFCAP-3SUFFOLK 11
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16774	D:6CORRCTN-6LANEXA 1 +3SUFFCAP-3SUFFOLK 11
314189	6PAPERMITL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16775	D:6CORRCTN-6LANEXA 1 +3SUFFOLK-3SUFFOLK 11
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16775	D:6CORRCTN-6LANEXA 1 +3SUFFOLK-3SUFFOLK 11
314189	6PAPERMITL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16776	D:6CORRCTN-6LANEXA 1 +3SUFFOLK-6SUFFOLK1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16776	D:6CORRCTN-6LANEXA 1 +3SUFFOLK-6SUFFOLK1
314189	6PAPERMITL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16777	D:6CORRCTN-6LANEXA 1 +3SUFFOLK-6SUFFOLK2
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16777	D:6CORRCTN-6LANEXA 1 +3SUFFOLK-6SUFFOLK2
314189	6PAPERMITL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16778	D:6CORRCTN-6LANEXA 1 +3SUFFOLK-6SUFFOLK3
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16778	D:6CORRCTN-6LANEXA 1 +3SUFFOLK-6SUFFOLK3
314189	6PAPERMITL	230.0	345	354	0.9064	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16779	D:6CORRCTN-6LANEXA 1 +6SUFFOLK-8SUFFOLK1
314375	6CORRCTN	230.0	345	354	0.9060	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16779	D:6CORRCTN-6LANEXA 1 +6SUFFOLK-8SUFFOLK1
314189	6PAPERMITL	230.0	345	354	0.9064	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16780	D:6CORRCTN-6LANEXA 1 +6SUFFOLK-8SUFFOLK2
314375	6CORRCTN	230.0	345	354	0.8960	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16780	D:6CORRCTN-6LANEXA 1 +6SUFFOLK-8SUFFOLK2
314189	6PAPERMITL	230.0	345	354	0.8969	1.0014	0.9300	1.0700	0.9538	1.0542	LD	16781	D:6CORRCTN-6LANEXA 1 +6SURREY -6POOLSVL1
314375	6CORRCTN	230.0	345	354	0.8960	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16781	D:6CORRCTN-6LANEXA 1 +6SURREY -6POOLSVL1
314189	6PAPERMITL	230.0	345	354	0.8963	1.0014	0.9300	1.0700	0.9519	1.0515	LD	16782	D:6CORRCTN-6LANEXA 1 +6SURREY -6RAVELA1
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16782	D:6CORRCTN-6LANEXA 1 +6SURREY -6RAVELA1
314189	6PAPERMITL	230.0	345	354	0.9064	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16783	D:6CORRCTN-6LANEXA 1 +6SURREY -6RAVELA1
314375	6CORRCTN	230.0	345	354	0.9061	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16783	D:6CORRCTN-6LANEXA 1 +6SURREY -6RAVELA1
314189	6PAPERMITL	230.0	345	354	0.8970	1.0014	0.9300	1.0700	0.9519	1.0542	LD	16784	D:6CORRCTN-6LANEXA 1 +6SURREY -1SURREY 11
314375	6CORRCTN	230.0	345	354	0.8973	1.0020	0.9300	1.0700	0.9519	1.0515	LD	16784	D:6CORRCTN-6LANEXA 1 +6SURREY -1SURREY 11
314189	6PAPERMITL	230.0	345	354	0.8907	1.0014	0.9300	1.0700	0.9519	1.0521	LD	16784	D:6CORRCTN-6LANEXA 1 +6SURREY -1SURREY 11
314375	6CORRCTN	230.0	345	354	0.9068	1.0020	0.9300	1.0700	0.9513	1.0515	LD	16785	D:6CORRCTN-6LANEXA 1 +3UNCAMP -3UNCAMP 11
314189	6PAPERMITL	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16785	D:6CORRCTN-6LANEXA 1 +3UNCAMP -3UNCAMP 11

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314189	6APERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16786	D:6CORRCTN-6LANEXA 1 + 3WATKINS-3WATKI 11
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16786	D:6CORRCTN-6LANEXA 1 + 3WATKINS-3WATKI 11
314189	6APERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16787	D:6CORRCTN-6LANEXA 1 + 3WATKINS-3WATKI 21
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16787	D:6CORRCTN-6LANEXA 1 + 3WATKINS-3WATKI 21
314189	6APERMILL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16788	D:6CORRCTN-6LANEXA 1 + 6GRAVELA-1GRAVEL31
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16788	D:6CORRCTN-6LANEXA 1 + 6GRAVELA-1GRAVEL31
314189	6APERMILL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16789	D:6CORRCTN-6LANEXA 1 + 6GRAVELA-1GRAVEL41
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16789	D:6CORRCTN-6LANEXA 1 + 6GRAVELA-1GRAVEL41
314189	6APERMILL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16790	D:6CORRCTN-6LANEXA 1 + 6GRAVELB-1GRAVEL51
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16790	D:6CORRCTN-6LANEXA 1 + 6GRAVELB-1GRAVEL51
314189	6APERMILL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16791	D:6CORRCTN-6LANEXA 1 + 6GRAVELB-1GRAVEL61
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16791	D:6CORRCTN-6LANEXA 1 + 6GRAVELB-1GRAVEL61
314189	6APERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16792	D:6CORRCTN-6LANEXA 1 + 8LOUDDO-18LOUDDO1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16792	D:6CORRCTN-6LANEXA 1 + 8LOUDDO-18LOUDDO1
314189	6APERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16793	D:6CORRCTN-6LANEXA 1 + 8MORRS-18MORRSV11
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16793	D:6CORRCTN-6LANEXA 1 + 8MORRS-18MORRSV11
314189	6APERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16794	D:6CORRCTN-6LANEXA 1 + 8MT ST 1-8MT STM 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16794	D:6CORRCTN-6LANEXA 1 + 8MT ST 1-8MT STM 1
314189	6APERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16795	D:6CORRCTN-6LANEXA 1 + 8MT ST 2-8MT STM 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16795	D:6CORRCTN-6LANEXA 1 + 8MT ST 2-8MT STM 1
314189	6APERMILL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16796	D:6CORRCTN-6LANEXA 1 + 8BRISTER-8CHANCE 1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16796	D:6CORRCTN-6LANEXA 1 + 8BRISTER-8CHANCE 1
314189	6APERMILL	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16797	D:6CORRCTN-6LANEXA 1 + 8BRISTER-8MORRSV11
314375	6CORRCTN	230.0	345	354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16797	D:6CORRCTN-6LANEXA 1 + 8BRISTER-8MORRSV11
314189	6APERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16798	D:6CORRCTN-6LANEXA 1 + 8BRISTER-8OX 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16798	D:6CORRCTN-6LANEXA 1 + 8BRISTER-8OX 1
314189	6APERMILL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16799	D:6CORRCTN-6LANEXA 1 + 8BATH CO-8LEXNGTNI
314375	6CORRCTN	230.0	345	354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16799	D:6CORRCTN-6LANEXA 1 + 8BATH CO-8LEXNGTNI
314189	6APERMILL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16800	D:6CORRCTN-6LANEXA 1 + 8BATH CO-8VALLEY 1
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16800	D:6CORRCTN-6LANEXA 1 + 8BATH CO-8VALLEY 1
314189	6APERMILL	230.0	345	354	0.9076	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16801	D:6CORRCTN-6LANEXA 1 + BS0510 BATH 3W1 1
314375	6CORRCTN	230.0	345	354	0.9072	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16801	D:6CORRCTN-6LANEXA 1 + BS0510 BATH 3W1 1
314189	6APERMILL	230.0	345	354	0.9076	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16802	D:6CORRCTN-6LANEXA 1 + BS0511 BATH 3W3 1
314375	6CORRCTN	230.0	345	354	0.9072	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16802	D:6CORRCTN-6LANEXA 1 + BS0511 BATH 3W3 1
314189	6APERMILL	230.0	345	354	0.9072	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16803	D:6CORRCTN-6LANEXA 1 + BS0512 BATH 3W5 1
314375	6CORRCTN	230.0	345	354	0.9076	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16803	D:6CORRCTN-6LANEXA 1 + BS0512 BATH 3W5 1
314189	6APERMILL	230.0	345	354	0.9072	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16803	D:6CORRCTN-6LANEXA 1 + BS0512 BATH 3W5 1
314375	6CORRCTN	230.0	345	354	0.9072	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16803	D:6CORRCTN-6LANEXA 1 + BS0512 BATH 3W5 1
314189	6APERMILL	230.0	345	354	0.8995	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16804	D:6CORRCTN-6LANEXA 1 + 8CARSON -8CLOVER 1
314375	6CORRCTN	230.0	345	354	0.8992	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16804	D:6CORRCTN-6LANEXA 1 + 8CARSON -8CLOVER 1
314189	6APERMILL	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16805	D:6CORRCTN-6LANEXA 1 + 8CARSON -8MULTHANI
314375	6CORRCTN	230.0	345	354	0.9062	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16805	D:6CORRCTN-6LANEXA 1 + 8CARSON -8MULTHANI
314189	6APERMILL	230.0	345	354	0.9059	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16806	D:6CORRCTN-6LANEXA 1 + 8CARSON -8FTVEFRK1
314375	6CORRCTN	230.0	345	354	0.9056	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16806	D:6CORRCTN-6LANEXA 1 + 8CARSON -8FTVEFRK1
314189	6APERMILL	230.0	345	354	0.9048	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16807	D:6CORRCTN-6LANEXA 1 + 8CARSON -8SULFOLK1
314375	6CORRCTN	230.0	345	354	0.9048	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16807	D:6CORRCTN-6LANEXA 1 + 8CARSON -8SULFOLK1
314189	6APERMILL	230.0	345	354	0.8986	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16807	D:6CORRCTN-6LANEXA 1 + 8CARSON -8SULFOLK1
314375	6CORRCTN	230.0	345	354	0.8983	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16807	D:6CORRCTN-6LANEXA 1 + 8CARSON -8SULFOLK1
314189	6APERMILL	230.0	345	354	0.9063	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16808	D:6CORRCTN-6LANEXA 1 + 8CHICKAH-8EIMONT 1
314375	6CORRCTN	230.0	345	354	0.9063	1.0020	0.9300	1.0700	0.9513	1.0515	LD	16808	D:6CORRCTN-6LANEXA 1 + 8CHICKAH-8EIMONT 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16808	D:6CORRCTN-GLANEXA 1 +8CHCKAHM-8ELMONT 1
314176	6SHAMONY	230.0	345	354	0.9049	1.0040	0.9300	1.0700	0.9536	1.0542	LD	16809	D:6CORRCTN-GLANEXA 1 +8CHCKAHM-8SURREY 1
314189	6PAPERMILL	230.0	345	354	0.8987	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16809	D:6CORRCTN-GLANEXA 1 +8CHCKAHM-8SURREY 1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16809	D:6CORRCTN-GLANEXA 1 +8CHCKAHM-8SURREY 1
314189	6PAPERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16810	D:6CORRCTN-GLANEXA 1 +8CLIFTON-8LOUDDOUN1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16810	D:6CORRCTN-GLANEXA 1 +8CLIFTON-8LOUDDOUN1
314189	6PAPERMILL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16811	D:6CORRCTN-GLANEXA 1 +8CLIFTON-8OX 1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16811	D:6CORRCTN-GLANEXA 1 +8CLIFTON-8OX 1
314189	6PAPERMILL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16812	D:6CORRCTN-GLANEXA 1 +8CHANCE-8LDYSMTHL
314375	6CORRCTN	230.0	345	354	0.9070	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16812	D:6CORRCTN-GLANEXA 1 +8CHANCE-8LDYSMTHL
314189	6PAPERMILL	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16813	D:6CORRCTN-GLANEXA 1 +8DOOMS-8CUNNING1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16813	D:6CORRCTN-GLANEXA 1 +8DOOMS-8CUNNING1
314189	6PAPERMILL	230.0	345	354	0.8942	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16813	D:6CORRCTN-GLANEXA 1 +8DOOMS-8CUNNING1
314375	6CORRCTN	230.0	345	354	0.8938	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16813	D:6CORRCTN-GLANEXA 1 +8DOOMS-8CUNNING1
314189	6PAPERMILL	230.0	345	354	0.9072	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16814	D:6CORRCTN-GLANEXA 1 +8DOOMS-8LEXNGTN1
314375	6CORRCTN	230.0	345	354	0.9068	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16814	D:6CORRCTN-GLANEXA 1 +8DOOMS-8LEXNGTN1
314189	6PAPERMILL	230.0	345	354	0.9072	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16815	D:6CORRCTN-GLANEXA 1 +8DOOMS-8VALLEY 1
314375	6CORRCTN	230.0	345	354	0.9068	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16815	D:6CORRCTN-GLANEXA 1 +8DOOMS-8VALLEY 1
314189	6PAPERMILL	230.0	345	354	0.9038	1.0014	0.9300	1.0700	0.9538	1.0542	LD	16816	D:6CORRCTN-GLANEXA 1 +8ELMONT-8CUNNING1
314375	6CORRCTN	230.0	345	354	0.8976	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16816	D:6CORRCTN-GLANEXA 1 +8ELMONT-8CUNNING1
314189	6PAPERMILL	230.0	345	354	0.8973	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16816	D:6CORRCTN-GLANEXA 1 +8ELMONT-8CUNNING1
314375	6CORRCTN	230.0	345	354	0.9055	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16817	D:6CORRCTN-GLANEXA 1 +8ELMONT-8LDYSMTHL
314189	6PAPERMILL	230.0	345	354	0.9062	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16817	D:6CORRCTN-GLANEXA 1 +8ELMONT-8LDYSMTHL
314375	6CORRCTN	230.0	345	354	0.8999	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16818	D:6CORRCTN-GLANEXA 1 +8FENTRES-8YADKIN 1
314189	6PAPERMILL	230.0	345	354	0.8995	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16818	D:6CORRCTN-GLANEXA 1 +8FENTRES-8YADKIN 1
314375	6CORRCTN	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16819	D:6CORRCTN-GLANEXA 1 +8CUNNING-1CUNINGAL
314189	6PAPERMILL	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16819	D:6CORRCTN-GLANEXA 1 +8CUNNING-1CUNINGAL
314375	6CORRCTN	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16820	D:6CORRCTN-GLANEXA 1 +8CUNNING-1CUNINGAL
314189	6PAPERMILL	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16820	D:6CORRCTN-GLANEXA 1 +8CUNNING-1CUNINGAL
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16821	D:6CORRCTN-GLANEXA 1 +8CUNNING-1CUNINGAL
314189	6PAPERMILL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16822	D:6CORRCTN-GLANEXA 1 +8CUNNING-1CUNINGAL
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16822	D:6CORRCTN-GLANEXA 1 +8CUNNING-1CUNINGAL
314189	6PAPERMILL	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16823	D:6CORRCTN-GLANEXA 1 +8LDYSMTL-8NO ANNAL
314375	6CORRCTN	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16823	D:6CORRCTN-GLANEXA 1 +8LDYSMTL-8NO ANNAL
314189	6PAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16824	D:6CORRCTN-GLANEXA 1 +8LDYSMTL-8POSSUM 1
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16824	D:6CORRCTN-GLANEXA 1 +8LDYSMTL-8POSSUM 1
314189	6PAPERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16825	D:6CORRCTN-GLANEXA 1 +8LOUDDOUN-8MORRISVUL
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16825	D:6CORRCTN-GLANEXA 1 +8LOUDDOUN-8MORRISVUL
314189	6PAPERMILL	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16826	D:6CORRCTN-GLANEXA 1 +8LOUDDOUN-8BRAMBLE1
314375	6CORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16826	D:6CORRCTN-GLANEXA 1 +8LOUDDOUN-8BRAMBLE1
314189	6PAPERMILL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16827	D:6CORRCTN-GLANEXA 1 +8MOLTHAN-8NO ANNAL
314375	6CORRCTN	230.0	345	354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16827	D:6CORRCTN-GLANEXA 1 +8MOLTHAN-8NO ANNAL
314189	6PAPERMILL	230.0	345	354	0.9059	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16828	D:6CORRCTN-GLANEXA 1 +8FIVEFRK-8SEPTA 1
314375	6CORRCTN	230.0	345	354	0.9056	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16828	D:6CORRCTN-GLANEXA 1 +8FIVEFRK-8SEPTA 1
314189	6PAPERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16829	D:6CORRCTN-GLANEXA 1 +8MORRISVUL-8NO ANNAL
314375	6CORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16829	D:6CORRCTN-GLANEXA 1 +8MORRISVUL-8NO ANNAL

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314189	GPAPERMILL	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16830	D:CORRECTN-6LANEXA 1 +8MORRSL-8FRONT R1
314375	GCORRCTN	230.0	345	354	0.9062	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16830	D:CORRECTN-6LANEXA 1 +8MORRSL-8FRONT R1
314189	GPAPERMILL	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16831	D:CORRECTN-6LANEXA 1 +8MT STM -8VALLEY 1
314375	GCORRCTN	230.0	345	354	0.9062	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16831	D:CORRECTN-6LANEXA 1 +8MT STM -8VALLEY 1
314189	GPAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16832	D:CORRECTN-6LANEXA 1 +8MT STM -3M STORM1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16832	D:CORRECTN-6LANEXA 1 +8MT STM -3M STORM1
314189	GPAPERMILL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16833	D:CORRECTN-6LANEXA 1 +8MT STM -1MT STM11
314375	GCORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16833	D:CORRECTN-6LANEXA 1 +8MT STM -1MT STM11
314189	GPAPERMILL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16834	D:CORRECTN-6LANEXA 1 +8MT STM -1MT STM21
314375	GCORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16834	D:CORRECTN-6LANEXA 1 +8MT STM -1MT STM21
314189	GPAPERMILL	230.0	345	354	0.9070	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16835	D:CORRECTN-6LANEXA 1 +8MT STM -1MT STM31
314375	GCORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16835	D:CORRECTN-6LANEXA 1 +8MT STM -1MT STM31
314189	GPAPERMILL	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16836	D:CORRECTN-6LANEXA 1 +8NO ANNA-1N ANNA11
314375	GCORRCTN	230.0	345	354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16836	D:CORRECTN-6LANEXA 1 +8NO ANNA-1N ANNA11
314189	GPAPERMILL	230.0	345	354	0.9066	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16837	D:CORRECTN-6LANEXA 1 +8NO ANNA-1N ANNA21
314375	GCORRCTN	230.0	345	354	0.9063	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16837	D:CORRECTN-6LANEXA 1 +8NO ANNA-1N ANNA21
314189	GPAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16838	D:CORRECTN-6LANEXA 1 +8OX -8POSSUM 1
314375	GCORRCTN	230.0	345	354	0.9066	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16838	D:CORRECTN-6LANEXA 1 +8OX -8POSSUM 1
314189	GPAPERMILL	230.0	345	354	0.9065	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16839	D:CORRECTN-6LANEXA 1 +3M STORM-3N BRANCH1
314375	GCORRCTN	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16839	D:CORRECTN-6LANEXA 1 +3M STORM-3N BRANCH1
314189	GPAPERMILL	230.0	345	354	0.9065	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16840	D:CORRECTN-6LANEXA 1 +8SEPTA -8SURREY 1
314375	GCORRCTN	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16840	D:CORRECTN-6LANEXA 1 +8SEPTA -8SURREY 1
314176	GHARMONY	230.0	345	354	0.9066	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16841	D:CORRECTN-6LANEXA 1 +8SEPTA -8YADKIN 1
314189	GPAPERMILL	230.0	345	354	0.8994	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16841	D:CORRECTN-6LANEXA 1 +8SEPTA -8YADKIN 1
314375	GCORRCTN	230.0	345	354	0.8990	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16841	D:CORRECTN-6LANEXA 1 +8SEPTA -8YADKIN 1
314189	GPAPERMILL	230.0	345	354	0.9056	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16842	D:CORRECTN-6LANEXA 1 +8SURREY -8SULPOLK1
314375	GCORRCTN	230.0	345	354	0.9053	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16842	D:CORRECTN-6LANEXA 1 +8SURREY -8SULPOLK1
314176	GHARMONY	230.0	345	354	0.9052	1.0040	0.9300	1.0700	0.9538	1.0542	LD	16843	D:CORRECTN-6LANEXA 1 +8SURREY -1SURREY 21
314189	GPAPERMILL	230.0	345	354	0.8990	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16843	D:CORRECTN-6LANEXA 1 +8SURREY -1SURREY 21
314375	GCORRCTN	230.0	345	354	0.8996	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16843	D:CORRECTN-6LANEXA 1 +8SURREY -1SURREY 21
314189	GPAPERMILL	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16844	D:CORRECTN-6LANEXA 1 +8PL VIEW-8BRAMBLE1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16844	D:CORRECTN-6LANEXA 1 +8PL VIEW-8BRAMBLE1
314189	GPAPERMILL	230.0	345	354	0.9068	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16845	D:CORRECTN-6LANEXA 1 +8YADKIN -8SULPOLK1
314375	GCORRCTN	230.0	345	354	0.9065	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16845	D:CORRECTN-6LANEXA 1 +8YADKIN -8SULPOLK1
314189	GPAPERMILL	230.0	345	354	0.9059	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16846	D:CORRECTN-6LANEXA 1 +8FRONT R-1FRNT RY1
314375	GCORRCTN	230.0	345	354	0.9053	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16846	D:CORRECTN-6LANEXA 1 +8FRONT R-1FRNT RY1
314176	GHARMONY	230.0	345	354	0.9067	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16847	D:CORRECTN-6LANEXA 1 +6YADKIN -8YADKIN 3
314189	GPAPERMILL	230.0	345	354	0.9064	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16847	D:CORRECTN-6LANEXA 1 +6YADKIN -8YADKIN 3
314375	GCORRCTN	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16848	D:CORRECTN-6LANEXA 1 +3YADKIN -6YADKIN 2
314189	GPAPERMILL	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16848	D:CORRECTN-6LANEXA 1 +3YADKIN -6YADKIN 2
314375	GCORRCTN	230.0	345	354	0.9069	1.0014	0.9300	1.0700	0.9513	1.0515	LD	16849	D:CORRECTN-6LANEXA 1 +3CHESAPEK-6CHESAPEK2
314189	GPAPERMILL	230.0	345	354	0.9069	1.0020	0.9300	1.0700	0.9519	1.0521	LD	16849	D:CORRECTN-6LANEXA 1 +3CHESAPEK-6CHESAPEK2
314396	3NNWS58	115.0	345	356	0.9031	0.9816	0.9300	1.0700	0.9325	1.0307	LD	19929	D:3LANEXA -3NNWS581 +6NP NEWS-6PEMBROK1
314411	3TORANOS58	115.0	345	356	0.9031	0.9801	0.9300	1.0700	0.9311	1.0291	LD	19929	D:3LANEXA -3NNWS581 +6NP NEWS-6PEMBROK1
314396	3NNWS58	115.0	345	356	0.9029	0.9816	0.9300	1.0700	0.9325	1.0307	LD	19931	D:3LANEXA -3NNWS581 +6PEMBROK-6SHELBNK1
314411	3TORANOS58	115.0	345	356	0.9029	0.9801	0.9300	1.0700	0.9311	1.0291	LD	19931	D:3LANEXA -3NNWS581 +6PEMBROK-6SHELBNK1
314391	5LIGH209	230.0	345	356	0.9083	0.9991	0.9300	1.0700	0.9491	1.0490	LD	20670	D:6LANEXA -6LIGH2091 +6NP NEWS-6PEMBROK1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	Voltrise	Viol	Ncon	Contingency Description
314399	6PEMBROK	230.0	345	356	0.8932	1.0035	0.9300	1.0700	0.9533	1.0536	LD	20670	D:6LANEXA-6LIGH2091+6NP NEWS-6PEMBROK1
314402	6PENINSI	230.0	345	356	0.8921	1.0007	0.9300	1.0700	0.9507	1.0508	LD	20670	D:6LANEXA-6LIGH2091+6NP NEWS-6PEMBROK1
314407	6SHELBNK	230.0	345	356	0.8922	0.9993	0.9300	1.0700	0.9493	1.0492	LD	20670	D:6LANEXA-6LIGH2091+6NP NEWS-6PEMBROK1
314409	6TABB	230.0	345	356	0.9064	1.0021	0.9300	1.0700	0.9520	1.0522	LD	20670	D:6LANEXA-6LIGH2091+6NP NEWS-6PEMBROK1
314415	6WALR209	230.0	345	356	0.9093	0.9989	0.9300	1.0700	0.9490	1.0489	LD	20670	D:6LANEXA-6LIGH2091+6NP NEWS-6PEMBROK1
314391	6LIGH209	230.0	345	356	0.9081	0.9991	0.9300	1.0700	0.9491	1.0490	LD	20672	D:6LANEXA-6LIGH2091+6PEMBROK-6SHELBNK1
314402	6PENINSI	230.0	345	356	0.8988	1.0007	0.9300	1.0700	0.9507	1.0508	LD	20672	D:6LANEXA-6LIGH2091+6PEMBROK-6SHELBNK1
314407	6SHELBNK	230.0	345	356	0.8929	0.9993	0.9300	1.0700	0.9493	1.0492	LD	20672	D:6LANEXA-6LIGH2091+6PEMBROK-6SHELBNK1
314409	6TABB	230.0	345	356	0.9062	1.0021	0.9300	1.0700	0.9520	1.0522	LD	20672	D:6LANEXA-6LIGH2091+6PEMBROK-6SHELBNK1
314415	6WALR209	230.0	345	356	0.9091	0.9989	0.9300	1.0700	0.9490	1.0489	LD	20672	D:6LANEXA-6LIGH2091+6PEMBROK-6SHELBNK1
314402	6PENINSI	230.0	345	356	0.8921	1.0035	0.9300	1.0700	0.9533	1.0536	LD	21402	D:6LIGH285-6WALR2851+6NP NEWS-6PEMBROK1
314407	6SHELBNK	230.0	345	356	0.9043	1.0007	0.9300	1.0700	0.9507	1.0508	LD	21402	D:6LIGH285-6WALR2851+6NP NEWS-6PEMBROK1
314409	6TABB	230.0	345	356	0.9062	0.9993	0.9300	1.0700	0.9493	1.0492	LD	21402	D:6LIGH285-6WALR2851+6NP NEWS-6PEMBROK1
314415	6WALR209	230.0	345	356	0.9091	0.9989	0.9300	1.0700	0.9490	1.0489	LD	21404	D:6LIGH285-6WALR2851+6PEMBROK-6SHELBNK1
314402	6PENINSI	230.0	345	356	0.8968	0.9993	0.9300	1.0700	0.9493	1.0492	LD	21404	D:6LIGH285-6WALR2851+6PEMBROK-6SHELBNK1
314407	6SHELBNK	230.0	345	356	0.9044	1.0035	0.9300	1.0700	0.9533	1.0536	LD	21644	D:6LIGH209-6WALR2091+6NP NEWS-6PEMBROK1
314409	6TABB	230.0	345	356	0.9041	0.9993	0.9300	1.0700	0.9493	1.0492	LD	21646	D:6LIGH209-6WALR2091+6PEMBROK-6SHELBNK1
314411	3TOANOS8	115.0	345	356	0.9030	0.9801	0.9300	1.0700	0.9311	1.0291	LD	23075	D:3NNWS58-3TOANOS81+6NP NEWS-6PEMBROK1
314411	3TOANOS8	115.0	345	356	0.9028	0.9801	0.9300	1.0700	0.9311	1.0291	LD	23075	D:3NNWS58-3TOANOS81+6NP NEWS-6PEMBROK1
314399	6PEMBROK	230.0	345	356	0.8621	1.0035	0.9300	1.0700	0.9533	1.0536	LD	23318	D:6NP NEWS-6PEMBROK1+6PENINSI-6SHELBNK1
314407	6SHELBNK	230.0	345	356	0.8661	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23318	D:6NP NEWS-6PEMBROK1+6PENINSI-6SHELBNK1
314399	6PEMBROK	230.0	345	356	0.8563	1.0035	0.9300	1.0700	0.9533	1.0536	LD	23319	D:6NP NEWS-6PEMBROK1+6PENINSI-6TABB 1
314402	6PENINSI	230.0	345	356	0.8572	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23319	D:6NP NEWS-6PEMBROK1+6PENINSI-6TABB 1
314407	6SHELBNK	230.0	345	356	0.8563	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23319	D:6NP NEWS-6PEMBROK1+6PENINSI-6TABB 1
314399	6PEMBROK	230.0	345	356	0.8332	1.0035	0.9300	1.0700	0.9533	1.0536	LD	23324	D:6NP NEWS-6PEMBROK1+6TABB -6YORKTWN1
314402	6PENINSI	230.0	345	356	0.8329	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23324	D:6NP NEWS-6PEMBROK1+6TABB -6YORKTWN1
314407	6SHELBNK	230.0	345	356	0.8331	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23324	D:6NP NEWS-6PEMBROK1+6TABB -6YORKTWN1
314409	6TABB	230.0	345	356	0.8311	1.0021	0.9300	1.0700	0.9520	1.0522	LD	23324	D:6NP NEWS-6PEMBROK1+6TABB -6YORKTWN1
313812	6ROCKLAND	230.0	345	356	0.9081	1.0020	0.9300	1.0700	0.9519	1.0521	LD	23330	D:6NP NEWS-6PEMBROK1+6WHEALT-6WINCHST1
314399	6PEMBROK	230.0	345	356	0.8872	1.0035	0.9300	1.0700	0.9533	1.0536	LD	23330	D:6NP NEWS-6PEMBROK1+6WHEALT-6WINCHST1
314402	6PENINSI	230.0	345	356	0.8872	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23330	D:6NP NEWS-6PEMBROK1+6WHEALT-6WINCHST1
314407	6SHELBNK	230.0	345	356	0.8872	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23330	D:6NP NEWS-6PEMBROK1+6WHEALT-6WINCHST1
314409	6TABB	230.0	345	356	0.9011	1.0021	0.9300	1.0700	0.9520	1.0522	LD	23330	D:6NP NEWS-6PEMBROK1+6WHEALT-6WINCHST1
314416	6WHEALT	230.0	345	356	0.9073	1.0016	0.9300	1.0700	0.9516	1.0517	LD	23330	D:6NP NEWS-6PEMBROK1+6WHEALT-6WINCHST1
314416	6WHEALT	230.0	345	356	0.9073	1.0014	0.9300	1.0700	0.9513	1.0515	LD	23330	D:6NP NEWS-6PEMBROK1+6WHEALT-6WINCHST1
314445	6WHEALT	230.0	345	356	0.9071	1.0034	0.9300	1.0700	0.9533	1.0536	LD	23330	D:6NP NEWS-6PEMBROK1+6WHEALT-6WINCHST1
313812	6ROCKLAND	230.0	345	356	0.8325	1.0020	0.9300	1.0700	0.9519	1.0521	LD	23332	D:6NP NEWS-6PEMBROK1+6WINCHST-6POOLSVL1
314176	6HARWNY	230.0	345	354	0.9070	1.0040	0.9300	1.0700	0.9538	1.0542	LD	23332	D:6NP NEWS-6PEMBROK1+6WINCHST-6POOLSVL1
314180	6HAYES	230.0	345	354	0.8571	1.0085	0.9300	1.0700	0.9581	1.0589	LD	23332	D:6NP NEWS-6PEMBROK1+6WINCHST-6POOLSVL1
314296	6PENINSI	230.0	345	356	0.8719	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23332	D:6NP NEWS-6PEMBROK1+6WINCHST-6POOLSVL1
314371	3AMOCO Y	115.0	345	356	0.8658	0.9851	0.9300	1.0700	0.9358	1.0343	LD	23332	D:6NP NEWS-6PEMBROK1+6WINCHST-6POOLSVL1
314372	3BLOXOMC	115.0	345	356	0.8709	0.9896	0.9300	1.0700	0.9401	1.0391	LD	23332	D:6NP NEWS-6PEMBROK1+6WINCHST-6POOLSVL1
314373	3COLONY	115.0	345	356	0.8667	0.9842	0.9300	1.0700	0.9350	1.0334	LD	23332	D:6NP NEWS-6PEMBROK1+6WINCHST-6POOLSVL1
314374	3COPELAND	115.0	345	356	0.8528	0.9963	0.9300	1.0700	0.9465	1.0461	LD	23332	D:6NP NEWS-6PEMBROK1+6WINCHST-6POOLSVL1
314376	6DENIGH	230.0	345	356	0.8584	1.0025	0.9300	1.0700	0.9524	1.0526	LD	23332	D:6NP NEWS-6PEMBROK1+6WINCHST-6POOLSVL1
314377	3DOW 34	115.0	345	356	0.9052	0.9865	0.9300	1.0700	0.9371	1.0358	LD	23332	D:6NP NEWS-6PEMBROK1+6WINCHST-6POOLSVL1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314376	3FTEUS34	115.0	345	356	0.8927	0.9840	0.9300	1.0700	0.9348	1.0332	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314379	3FTEUS58	115.0	345	356	0.8699	0.9704	0.9300	1.0700	0.9219	1.0189	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314381	3GRAFT34	115.0	345	356	0.8677	0.9829	0.9300	1.0700	0.9328	1.0321	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314382	3GRAFT58	115.0	345	356	0.8767	0.9767	0.9300	1.0700	0.9238	1.0255	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314384	3KINGS M	115.0	345	356	0.8776	0.9665	0.9300	1.0700	0.9181	1.0148	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314386	6KINGS M	230.0	345	356	0.8688	1.0017	0.9300	1.0700	0.9516	1.0518	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314389	6LEBAN58	115.0	345	356	0.8707	0.9681	0.9300	1.0700	0.9197	1.0165	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314390	6LIGH285	230.0	345	356	0.8823	0.9968	0.9300	1.0700	0.9469	1.0466	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314391	6LIGH209	230.0	345	356	0.8876	0.9991	0.9300	1.0700	0.9491	1.0490	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314392	3WAGRU0R	115.0	345	356	0.8794	0.9962	0.9300	1.0700	0.9464	1.0460	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314393	3WECURY	115.0	345	356	0.8770	0.9958	0.9300	1.0700	0.9460	1.0456	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314394	3NASHA	115.0	345	356	0.8787	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314397	3NEMW575	115.0	345	356	0.8828	0.9963	0.9300	1.0700	0.9465	1.0461	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314399	6PENBROK	230.0	345	356	0.8808	1.0035	0.9300	1.0700	0.9533	1.0536	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314401	3PENINSL	115.0	345	356	0.8787	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314402	6PENINSL	230.0	345	356	0.8827	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314403	3SEAF076	115.0	345	356	0.8866	0.9868	0.9300	1.0700	0.9375	1.0361	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314404	3SEAF079	115.0	345	356	0.8881	0.9863	0.9300	1.0700	0.9370	1.0357	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314406	3SHELBNK	115.0	345	356	0.8830	1.0010	0.9300	1.0700	0.9509	1.0510	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314407	3SHELBNK	230.0	345	356	0.8808	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314409	6TABB	230.0	345	356	0.8794	1.0021	0.9300	1.0700	0.9520	1.0522	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314412	3U CARBD	115.0	345	356	0.8787	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314413	6WALR285	230.0	345	356	0.8746	0.9966	0.9300	1.0700	0.9467	1.0464	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314414	3WALRICK	115.0	345	356	0.8737	0.9892	0.9300	1.0700	0.9397	1.0386	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314415	6WALR209	230.0	345	356	0.8785	0.9989	0.9300	1.0700	0.9490	1.0489	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314416	6WALRICK	230.0	345	356	0.8381	1.0016	0.9300	1.0700	0.9516	1.0517	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314417	3WHEALTN	115.0	345	356	0.8839	0.9972	0.9300	1.0700	0.9474	1.0471	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314418	6WHEALTN	230.0	345	356	0.8343	1.0014	0.9300	1.0700	0.9513	1.0515	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314420	3PENIN 1	115.0	345	356	0.8791	0.9947	0.9300	1.0700	0.9449	1.0444	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314421	6WINCHST	230.0	345	356	0.8341	1.0012	0.9300	1.0700	0.9511	1.0513	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314422	3YORKTWN	115.0	345	356	0.8659	0.9852	0.9300	1.0700	0.9359	1.0344	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314423	6YORKTWN	230.0	345	356	0.8550	1.0072	0.9300	1.0700	0.9568	1.0575	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314424	3YORK 58	115.0	345	356	0.8720	0.9675	0.9300	1.0700	0.9191	1.0159	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314425	3YORK PS	115.0	345	356	0.8653	0.9853	0.9300	1.0700	0.9361	1.0346	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314445	6WHEAL 1	230.0	345	356	0.8360	1.0034	0.9300	1.0700	0.9533	1.0536	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314450	6YORKT 1	230.0	345	356	0.8578	1.0105	0.9300	1.0700	0.9599	1.0610	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
315091	LYORKTN2	18.0	345	356	0.8659	0.9852	0.9300	1.0700	0.9359	1.0344	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
315092	LYORKTN3	25.0	345	356	0.8550	1.0072	0.9300	1.0700	0.9568	1.0575	LD	23332	D:6NP NEWS-6PENBROK1 +6WINCHST-6POOLSVL1
314399	6PENBROK	230.0	345	356	0.9042	1.0035	0.9300	1.0700	0.9533	1.0536	LD	23335	D:6NP NEWS-6PENBROK1 +6YORKTWN-6YORKT 11
314407	6SHELBNK	230.0	345	356	0.9042	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23335	D:6NP NEWS-6PENBROK1 +6YORKTWN-6YORKT 11
313812	6BROCKLAND	230.0	345	356	0.8972	1.0020	0.9300	1.0700	0.9519	1.0521	LD	23477	D:6NP NEWS-6PENBROK1 +6SURY -6POOLSVL1
314176	6HAWKONY	230.0	345	354	0.9046	1.0040	0.9300	1.0700	0.9536	1.0542	LD	23477	D:6NP NEWS-6PENBROK1 +6SURY -6POOLSVL1
314180	6HAWKONY	230.0	345	354	0.8541	1.0085	0.9300	1.0700	0.9581	1.0589	LD	23477	D:6NP NEWS-6PENBROK1 +6SURY -6POOLSVL1
314296	6PENINMAN	230.0	345	356	0.8622	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23477	D:6NP NEWS-6PENBROK1 +6SURY -6POOLSVL1
314371	3AMOCO Y	115.0	345	356	0.8628	0.9851	0.9300	1.0700	0.9358	1.0343	LD	23477	D:6NP NEWS-6PENBROK1 +6SURY -6POOLSVL1
314372	3BLAXONC	115.0	345	356	0.8670	0.9896	0.9300	1.0700	0.9401	1.0391	LD	23477	D:6NP NEWS-6PENBROK1 +6SURY -6POOLSVL1
314373	3COLONY	115.0	345	356	0.8638	0.9842	0.9300	1.0700	0.9350	1.0334	LD	23477	D:6NP NEWS-6PENBROK1 +6SURY -6POOLSVL1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314374	SCOPELND	115.0	345	356	0.8601	0.9963	0.9300	1.0700	0.9465	1.0461	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314376	GDENBIGH	230.0	345	356	0.8554	1.0023	0.9300	1.0700	0.9524	1.0526	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314377	SDOW 34	115.0	345	356	0.9027	0.9865	0.9300	1.0700	0.9371	1.0358	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314378	3FTEUS54	115.0	345	356	0.8992	0.9840	0.9300	1.0700	0.9348	1.0332	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314379	3FTEUS58	115.0	345	356	0.8667	0.9704	0.9300	1.0700	0.9219	1.0189	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314381	3GRAFT34	115.0	345	356	0.8736	0.9829	0.9300	1.0700	0.9338	1.0321	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314382	3GRAFT58	115.0	345	356	0.8647	0.9767	0.9300	1.0700	0.9278	1.0255	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314384	3KINGS M	115.0	345	356	0.8744	0.9665	0.9300	1.0700	0.9181	1.0148	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314386	3KINGS M	230.0	345	356	0.8659	1.0017	0.9300	1.0700	0.9516	1.0518	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314389	3LEBAN58	115.0	345	356	0.8676	0.9681	0.9300	1.0700	0.9197	1.0165	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314390	6LIGH285	230.0	345	356	0.8796	0.9968	0.9300	1.0700	0.9469	1.0466	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314391	6LIGH209	230.0	345	356	0.8849	0.9991	0.9300	1.0700	0.9491	1.0490	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314392	3MAGRIDR	115.0	345	356	0.8764	0.9962	0.9300	1.0700	0.9464	1.0460	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314393	3MERCURY	115.0	345	356	0.8741	0.9958	0.9300	1.0700	0.9460	1.0456	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314394	3NASHA	115.0	345	356	0.8758	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314397	3NNWS75	115.0	345	356	0.8601	0.9963	0.9300	1.0700	0.9465	1.0461	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314399	6PMBROK	230.0	345	356	0.8180	1.0035	0.9300	1.0700	0.9533	1.0536	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314401	3PENINSI	115.0	345	356	0.8758	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314402	3PENINSI	230.0	345	356	0.8269	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314403	3SEAF076	115.0	345	356	0.8656	0.9868	0.9300	1.0700	0.9375	1.0361	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314404	3SEAF079	115.0	345	356	0.8651	0.9863	0.9300	1.0700	0.9370	1.0357	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314406	3SHELANK	115.0	345	356	0.8801	1.0010	0.9300	1.0700	0.9509	1.0510	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314407	6SHELANK	230.0	345	356	0.8180	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314409	6TABB	230.0	345	356	0.8345	1.0021	0.9300	1.0700	0.9520	1.0522	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314412	3U CARB	115.0	345	356	0.8758	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314413	6WALR285	230.0	345	356	0.8718	0.9966	0.9300	1.0700	0.9467	1.0464	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314414	3WAWICK	115.0	345	356	0.8709	0.9892	0.9300	1.0700	0.9397	1.0386	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314415	6WALR209	230.0	345	356	0.8757	0.9989	0.9300	1.0700	0.9490	1.0489	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314416	6WAWICK	230.0	345	356	0.8360	1.0016	0.9300	1.0700	0.9516	1.0517	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314417	3WHEALT	115.0	345	356	0.8812	0.9972	0.9300	1.0700	0.9474	1.0471	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314418	6WHEALT	230.0	345	356	0.8326	1.0014	0.9300	1.0700	0.9513	1.0515	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314420	3PENIN 1	115.0	345	356	0.8762	0.9947	0.9300	1.0700	0.9449	1.0444	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314421	6WNCST	230.0	345	356	0.8324	1.0012	0.9300	1.0700	0.9511	1.0513	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314422	3YORKTWN	115.0	345	356	0.8629	0.9852	0.9300	1.0700	0.9359	1.0344	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314423	6YORKTWN	230.0	345	356	0.8521	1.0072	0.9300	1.0700	0.9568	1.0575	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314424	3YMS 58	115.0	345	356	0.8688	0.9675	0.9300	1.0700	0.9191	1.0159	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314425	3YORK PS	115.0	345	356	0.8623	0.9853	0.9300	1.0700	0.9361	1.0346	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314445	6WHEAL 1	230.0	345	356	0.8343	1.0034	0.9300	1.0700	0.9533	1.0536	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314450	6YORKT 1	230.0	345	356	0.8447	1.0105	0.9300	1.0700	0.9599	1.0610	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314540	6POOLSVL	230.0	345	360	0.8347	1.0054	0.9300	1.0700	0.9552	1.0557	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
315091	6PENINSI	18.0	345	356	0.8629	0.9852	0.9300	1.0700	0.9359	1.0344	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
315092	6YORKTWN	25.0	345	356	0.8521	1.0072	0.9300	1.0700	0.9568	1.0575	LD	23477	D:6NP NEWS-6PMBROK1 +6SURY -6POOLSVL1
314407	6SHELANK	230.0	345	356	0.8656	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23785	D:6PMBROK-6SHELANK1 +6PENINSI-6SHELANK1
314402	6PENINSI	230.0	345	356	0.8559	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23786	D:6PMBROK-6SHELANK1 +6PENINSI-6TABB 1
314407	6SHELANK	230.0	345	356	0.8559	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23786	D:6PMBROK-6SHELANK1 +6PENINSI-6TABB 1
314402	6PENINSI	230.0	345	356	0.8325	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23791	D:6PMBROK-6SHELANK1 +6TABB -6YORKTWN1
314407	6SHELANK	230.0	345	356	0.8327	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23791	D:6PMBROK-6SHELANK1 +6TABB -6YORKTWN1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	Voltdrop	Voltrise	Viol	Ncon	Contingency Description
314409	6TABB	230.0	345	356	0.8308	1.0021	0.9300	1.0700	0.9520	1.0522	LD	23791	D:6PEMBROK-6SHELANK1 +6TABB -6TORATNWI
313812	6ROCKLAND	230.0	345	356	0.9078	1.0020	0.9300	1.0700	0.9519	1.0521	LD	23791	D:6PEMBROK-6SHELANK1 +6WHEALTIN-6WINCHST1
314402	6PENINS	230.0	345	356	0.8930	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23791	D:6PEMBROK-6SHELANK1 +6WHEALTIN-6WINCHST1
314407	6SHELANK	230.0	345	356	0.8668	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23791	D:6PEMBROK-6SHELANK1 +6WHEALTIN-6WINCHST1
314409	6TABB	230.0	345	356	0.9007	1.0021	0.9300	1.0700	0.9520	1.0522	LD	23791	D:6PEMBROK-6SHELANK1 +6WHEALTIN-6WINCHST1
314416	6WARWICK	230.0	345	356	0.9070	1.0016	0.9300	1.0700	0.9516	1.0517	LD	23791	D:6PEMBROK-6SHELANK1 +6WHEALTIN-6WINCHST1
314418	6WHEALTIN	230.0	345	356	0.9050	1.0014	0.9300	1.0700	0.9513	1.0515	LD	23791	D:6PEMBROK-6SHELANK1 +6WHEALTIN-6WINCHST1
314445	6WHEAL I	230.0	345	356	0.9068	1.0034	0.9300	1.0700	0.9533	1.0536	LD	23791	D:6PEMBROK-6SHELANK1 +6WHEALTIN-6WINCHST1
313812	6ROCKLAND	230.0	345	356	0.8391	1.0020	0.9300	1.0700	0.9519	1.0521	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314176	6HARMONY	230.0	345	354	0.9268	1.0040	0.9300	1.0700	0.9538	1.0542	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314180	6HAYES	230.0	345	354	0.8667	1.0085	0.9300	1.0700	0.9581	1.0589	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314296	6PENNTMAN	230.0	345	356	0.8716	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314371	3AMOCO Y	115.0	345	356	0.8654	0.9851	0.9300	1.0700	0.9358	1.0343	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314372	3BLOXOMC	115.0	345	356	0.8695	0.9896	0.9300	1.0700	0.9401	1.0391	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314373	3COLONY	115.0	345	356	0.8662	0.9842	0.9300	1.0700	0.9350	1.0334	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314374	3CORELAND	115.0	345	356	0.8823	0.9963	0.9300	1.0700	0.9465	1.0461	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314376	6DENBIGH	230.0	345	356	0.8280	1.0025	0.9300	1.0700	0.9524	1.0526	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314377	3DOM 34	115.0	345	356	0.9048	0.9865	0.9300	1.0700	0.9371	1.0358	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314378	3FTTUS34	115.0	345	356	0.8924	0.9840	0.9300	1.0700	0.9348	1.0332	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314379	3TEUS58	115.0	345	356	0.8695	0.9704	0.9300	1.0700	0.9219	1.0189	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314381	3GRAPT34	115.0	345	356	0.8763	0.9829	0.9300	1.0700	0.9338	1.0321	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314382	3GRAPT58	115.0	345	356	0.8674	0.9767	0.9300	1.0700	0.9278	1.0255	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314384	3KINGS M	115.0	345	356	0.8773	0.9665	0.9300	1.0700	0.9181	1.0148	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314386	6KINGS M	230.0	345	356	0.8685	1.0017	0.9300	1.0700	0.9516	1.0518	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314389	3LERANS8	115.0	345	356	0.8704	0.9681	0.9300	1.0700	0.9197	1.0165	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314390	6LIGH285	230.0	345	356	0.8821	0.9968	0.9300	1.0700	0.9469	1.0466	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314391	6LIGH209	230.0	345	356	0.8873	0.9991	0.9300	1.0700	0.9491	1.0490	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314392	3MAGRUDR	115.0	345	356	0.8789	0.9962	0.9300	1.0700	0.9464	1.0460	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314393	3MERCURY	115.0	345	356	0.8765	0.9958	0.9300	1.0700	0.9460	1.0456	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314394	3NASSA	115.0	345	356	0.8782	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314397	3NNEN575	115.0	345	356	0.8823	0.9963	0.9300	1.0700	0.9465	1.0461	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314401	3PENINS	115.0	345	356	0.8782	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314402	6PENINS	230.0	345	356	0.8293	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314403	3SEAPT06	115.0	345	356	0.8682	0.9868	0.9300	1.0700	0.9375	1.0361	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314404	3SEAPT09	115.0	345	356	0.8676	0.9863	0.9300	1.0700	0.9370	1.0357	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314406	3SHELANK	115.0	345	356	0.8825	1.0010	0.9300	1.0700	0.9509	1.0510	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314407	6SHELANK	230.0	345	356	0.8203	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314409	6TABB	230.0	345	356	0.8370	1.0021	0.9300	1.0700	0.9520	1.0522	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314412	3U CARAB	115.0	345	356	0.8783	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314413	6WALR285	230.0	345	356	0.8743	0.9966	0.9300	1.0700	0.9467	1.0464	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314414	3WARWICK	115.0	345	356	0.8732	0.9982	0.9300	1.0700	0.9397	1.0386	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314415	6WALR209	230.0	345	356	0.8782	0.9999	0.9300	1.0700	0.9490	1.0489	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314416	6WARWICK	230.0	345	356	0.8377	1.0016	0.9300	1.0700	0.9516	1.0517	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314417	3WHEALTIN	115.0	345	356	0.8834	0.9972	0.9300	1.0700	0.9474	1.0471	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314418	6WHEALTIN	230.0	345	356	0.8339	1.0014	0.9300	1.0700	0.9513	1.0515	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314420	3PENIN I	115.0	345	356	0.8787	0.9947	0.9300	1.0700	0.9449	1.0444	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL
314421	6WINCHST	230.0	345	356	0.8337	1.0012	0.9300	1.0700	0.9511	1.0513	LD	23799	D:6PEMBROK-6SHELANK1 +6WINCHST-6POOLSVELL

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314422	3YORKTWN	115.0	345	356	0.8655	0.9852	0.9300	1.0700	0.9359	1.0344	LD	23799	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVLL
314423	6YORKTWN	230.0	345	356	0.8546	1.0072	0.9300	1.0700	0.9568	1.0375	LD	23799	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVLL
314424	3YRWS 58	115.0	345	356	0.8716	0.9675	0.9300	1.0700	0.9191	1.0159	LD	23799	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVLL
314425	3YORK PS	115.0	345	356	0.8649	0.9853	0.9300	1.0700	0.9361	1.0346	LD	23799	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVLL
314445	6WHEAL 1	230.0	345	356	0.8356	1.0034	0.9300	1.0700	0.9533	1.0536	LD	23799	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVLL
314450	6YORKT 1	230.0	345	356	0.8574	1.0105	0.9300	1.0700	0.9599	1.0610	LD	23799	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVLL
315091	1YORKTWN2	18.0	345	356	0.8655	0.9852	0.9300	1.0700	0.9359	1.0344	LD	23799	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVLL
315092	1YORKTWN3	25.0	345	356	0.8546	1.0072	0.9300	1.0700	0.9568	1.0575	LD	23799	D:6PEMBROK-6SHELBNK1 +6WINCHST-6POOLSVLL
314407	6SHELBNK	230.0	345	356	0.9039	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23802	D:6PEMBROK-6SHELBNK1 +6YORKTWN-6YORKT 11
313812	6ROCKLAND	230.0	345	356	0.8368	1.0020	0.9300	1.0700	0.9519	1.0521	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
311176	6HARMONY	230.0	345	354	0.9043	1.0040	0.9300	1.0700	0.9538	1.0542	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314180	6HAYES	230.0	345	354	0.8538	1.0085	0.9300	1.0700	0.9581	1.0589	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314296	6PENNINGAN	230.0	345	356	0.8688	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314371	3AMOCO Y	115.0	345	356	0.8624	0.9851	0.9300	1.0700	0.9358	1.0343	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314372	3BLAXONC	115.0	345	356	0.8665	0.9896	0.9300	1.0700	0.9401	1.0391	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314373	3COLONY	115.0	345	356	0.8624	0.9842	0.9300	1.0700	0.9350	1.0334	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314374	3COPELAND	115.0	345	356	0.8797	0.9963	0.9300	1.0700	0.9465	1.0461	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314376	6DENBIGH	230.0	345	356	0.8651	1.0025	0.9300	1.0700	0.9524	1.0526	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314377	3COW 34	115.0	345	356	0.9019	0.9865	0.9300	1.0700	0.9371	1.0358	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314378	3FTUS34	115.0	345	356	0.8893	0.9840	0.9300	1.0700	0.9348	1.0332	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314379	3FTUS58	115.0	345	356	0.8664	0.9704	0.9300	1.0700	0.9219	1.0189	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314381	3GRAFT34	115.0	345	356	0.8732	0.9829	0.9300	1.0700	0.9336	1.0321	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314382	3GRAFT58	115.0	345	356	0.8643	0.9767	0.9300	1.0700	0.9278	1.0255	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314384	6KINGS M	115.0	345	356	0.8741	0.9665	0.9300	1.0700	0.9181	1.0148	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314386	6KINGS M	230.0	345	356	0.8656	1.0017	0.9300	1.0700	0.9516	1.0518	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314389	3LEMAN58	115.0	345	356	0.8672	0.9681	0.9300	1.0700	0.9197	1.0165	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314390	6LIGH285	230.0	345	356	0.8793	0.9968	0.9300	1.0700	0.9469	1.0466	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314391	6LIGH209	230.0	345	356	0.8847	0.9991	0.9300	1.0700	0.9491	1.0490	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314392	3MAGRUDR	115.0	345	356	0.8760	0.9962	0.9300	1.0700	0.9464	1.0460	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314393	3MERCURY	115.0	345	356	0.8736	0.9958	0.9300	1.0700	0.9460	1.0456	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314394	3NASHA	115.0	345	356	0.8753	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314397	3NNESW75	115.0	345	356	0.8797	0.9963	0.9300	1.0700	0.9465	1.0461	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314401	3PENINSL	115.0	345	356	0.8753	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314402	6PENINSL	230.0	345	356	0.8624	1.0007	0.9300	1.0700	0.9507	1.0508	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314403	3SEAF076	115.0	345	356	0.8652	0.9868	0.9300	1.0700	0.9375	1.0361	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314404	3SEAF079	115.0	345	356	0.8646	0.9863	0.9300	1.0700	0.9370	1.0357	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314406	6SHELBNK	115.0	345	356	0.8796	1.0010	0.9300	1.0700	0.9509	1.0510	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314407	6SHELBNK	230.0	345	356	0.8725	0.9993	0.9300	1.0700	0.9493	1.0492	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314409	6TABB	230.0	345	356	0.8341	1.0021	0.9300	1.0700	0.9520	1.0522	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314412	3U CARBD	115.0	345	356	0.8754	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314413	6WALR285	230.0	345	356	0.8715	0.9966	0.9300	1.0700	0.9477	1.0464	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314414	6WAWTCK	115.0	345	356	0.8705	0.9892	0.9300	1.0700	0.9397	1.0386	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314415	6WALR209	230.0	345	356	0.8345	1.0016	0.9300	1.0700	0.9490	1.0489	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314416	6WAWTCK	230.0	345	356	0.8754	0.9942	0.9300	1.0700	0.9445	1.0439	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314417	6WHEALTN	115.0	345	356	0.8809	0.9972	0.9300	1.0700	0.9474	1.0471	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314418	6WHEALTN	230.0	345	356	0.8322	1.0014	0.9300	1.0700	0.9513	1.0515	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL
314420	3PENIN 1	115.0	345	356	0.8757	0.9947	0.9300	1.0700	0.9449	1.0444	LD	23944	D:6PEMBROK-6SHELBNK1 +6SUNNY -6POOLSVLL

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	VoltDrop	VoltRise	Viol	Ncon	Contingency Description
314421	GWINCHST	230.0	345	356	0.8320	1.0012	0.9300	1.0700	0.9511	1.0513	LD	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVL1
314422	3YORKTWN	115.0	345	356	0.8625	0.9652	0.9300	1.0700	0.9369	1.0344	LD	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVL1
314423	3YORKTWN	230.0	345	356	0.8517	1.0072	0.9300	1.0700	0.9568	1.0575	LD	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVL1
314424	3YORKS 58	115.0	345	356	0.8684	0.9675	0.9300	1.0700	0.9191	1.0159	LD	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVL1
314425	3YORK PS	115.0	345	356	0.8679	0.9853	0.9300	1.0700	0.9361	1.0346	LD	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVL1
314445	6WHEAL 1	230.0	345	356	0.8338	1.0034	0.9300	1.0700	0.9533	1.0536	LD	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVL1
314450	6FOOLSVL	230.0	345	356	0.8545	1.0105	0.9300	1.0700	0.9599	1.0610	LD	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVL1
315091	1YORKTN2	18.0	345	356	0.8625	0.9852	0.9300	1.0700	0.9359	1.0344	LD	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVL1
315092	1YORKTN3	25.0	345	356	0.8517	1.0072	0.9300	1.0700	0.9568	1.0575	LD	23944	D:6PEMBROK-6SHELBNK1 +6SURY -6POOLSVL1
314491	6SEWLSPT	230.0	345	359	0.8690	1.0062	0.9300	1.0700	0.9559	1.0565	LD	35110	D:6CHRHLD-6SEWLSPT1 +6CHRHLD-6SEWLSPT2
314500	6NAVYS	230.0	345	359	0.8690	1.0062	0.9300	1.0700	0.9559	1.0565	LD	35110	D:6CHRHLD-6SEWLSPT1 +6CHRHLD-6SEWLSPT2
314501	6NAVYS1	230.0	345	359	0.8690	1.0062	0.9300	1.0700	0.9559	1.0565	LD	35110	D:6CHRHLD-6SEWLSPT1 +6CHRHLD-6SEWLSPT2
314505	6NAVYN	230.0	345	359	0.8690	1.0062	0.9300	1.0700	0.9559	1.0565	LD	35110	D:6CHRHLD-6SEWLSPT1 +6CHRHLD-6SEWLSPT2
314510	6NAVYN	230.0	345	359	0.8690	1.0062	0.9300	1.0700	0.9559	1.0565	LD	35110	D:6CHRHLD-6SEWLSPT1 +6CHRHLD-6SEWLSPT2
314348	2GRNTN 1	69.0	345	358	0.7683	1.0069	0.9300	1.0700	0.9565	1.0572	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314354	2ALVYS 1	69.0	345	358	0.8201	1.0261	0.9300	1.0700	0.9748	1.0774	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314515	2ALVYS 1	115.0	345	358	0.8278	0.9985	0.9300	1.0700	0.9486	1.0484	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314666	2ALVYSTA	115.0	345	358	0.8174	0.9980	0.9300	1.0700	0.9481	1.0479	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314667	2ALVYSTA	138.0	345	358	0.8064	0.9946	0.9300	1.0700	0.9449	1.0443	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314668	4BANISTK	138.0	345	358	0.8631	0.9865	0.9300	1.0700	0.9372	1.0358	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314670	2ALVYSTA	69.0	345	358	0.8159	1.0258	0.9300	1.0700	0.9745	1.0771	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314671	4BEARSKN	138.0	345	358	0.8506	0.9901	0.9300	1.0700	0.9406	1.0396	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314680	2CHATHAM	69.0	345	358	0.7737	0.9939	0.9300	1.0700	0.9442	1.0436	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314685	2CHRM TP	69.0	345	358	0.7744	0.9945	0.9300	1.0700	0.9448	1.0442	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314689	3JOMINIO	115.0	345	358	0.8000	0.9905	0.9300	1.0700	0.9410	1.0400	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314694	3GRIT	115.0	345	358	0.8305	0.9985	0.9300	1.0700	0.9486	1.0484	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314700	3HALL BR	115.0	345	358	0.8195	0.9987	0.9300	1.0700	0.9488	1.0487	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314705	3HURT	115.0	345	358	0.8230	1.0000	0.9300	1.0700	0.9500	1.0500	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314712	3OTTER R	115.0	345	358	0.8191	0.9976	0.9300	1.0700	0.9477	1.0474	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314714	3PENTH	115.0	345	358	0.8927	1.0042	0.9300	1.0700	0.9539	1.0544	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314727	2CLMCK DP	69.0	345	358	0.7707	0.9911	0.9300	1.0700	0.9416	1.0407	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314728	2CLMCK TP	69.0	345	358	0.7715	0.9919	0.9300	1.0700	0.9423	1.0415	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314729	2GLADYS	69.0	345	358	0.7930	1.0030	0.9300	1.0700	0.9529	1.0532	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314730	2GLDY TP	69.0	345	358	0.8152	1.0227	0.9300	1.0700	0.9716	1.0738	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314731	2GRETHA	69.0	345	358	0.7881	1.0066	0.9300	1.0700	0.9563	1.0570	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314732	2GRNA FB	69.0	345	358	0.7892	1.0066	0.9300	1.0700	0.9563	1.0570	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314733	2GRNA DP	69.0	345	358	0.7860	1.0047	0.9300	1.0700	0.9545	1.0550	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314734	2KLOP DP	69.0	345	358	0.8086	1.0184	0.9300	1.0700	0.9675	1.0693	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314735	2KLOP TP	69.0	345	358	0.8086	1.0184	0.9300	1.0700	0.9675	1.0693	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314736	2SHRO DP	69.0	345	358	0.7743	0.9943	0.9300	1.0700	0.9446	1.0440	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314737	2SW35T57	69.0	345	358	0.7968	1.0113	0.9300	1.0700	0.9608	1.0619	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314738	2MT AIRY	69.0	345	358	0.7902	1.0053	0.9300	1.0700	0.9553	1.0558	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314739	2MT A TP	69.0	345	358	0.7968	1.0113	0.9300	1.0700	0.9608	1.0619	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314740	2ALVRE35	69.0	345	358	0.8199	1.0258	0.9300	1.0700	0.9745	1.0771	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314789	2BEARSKN	69.0	345	358	0.8506	0.9901	0.9300	1.0700	0.9406	1.0396	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1
314836	3BACFLS	115.0	345	365	0.3658	0.9976	0.9300	1.0700	0.9477	1.0475	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTN1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	LowLimit	Upplimit	Voltdrop	Voltrise	Viol	Ncon	Contingency Description
314837	3BUENA V	115.0	345	365	0.3648	0.9968	0.9300	1.0700	0.9469	1.0466	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314838	3BUSTLEB	115.0	345	365	0.3719	1.0011	0.9300	1.0700	0.9510	1.0511	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314839	3BUSTLT T	115.0	345	365	0.3721	1.0012	0.9300	1.0700	0.9512	1.0513	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314840	6CLFTN F	230.0	345	365	0.3442	0.9779	0.9300	1.0700	0.9290	1.0268	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314841	4CLFTN F	138.0	345	365	0.3519	1.0334	0.9300	1.0700	0.9817	1.0850	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314842	4COWNGT1	138.0	345	365	0.3340	1.0231	0.9300	1.0700	0.9720	1.0743	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314843	4COWNGT2	138.0	345	365	0.3343	1.0213	0.9300	1.0700	0.9702	1.0723	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314844	3CRAIGSV	115.0	345	365	0.3656	0.9974	0.9300	1.0700	0.9475	1.0472	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314845	3EFFINOR	115.0	345	365	0.3703	1.0006	0.9300	1.0700	0.9506	1.0507	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314846	3FAIRFTD	115.0	345	365	0.3706	1.0002	0.9300	1.0700	0.9502	1.0502	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314847	4FUDGE H	138.0	345	365	0.3283	1.0192	0.9300	1.0700	0.9683	1.0702	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314848	3GLASGOW	115.0	345	365	0.3675	0.9986	0.9300	1.0700	0.9487	1.0486	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314849	3GOSHEN	115.0	345	365	0.3675	0.9986	0.9300	1.0700	0.9487	1.0486	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314851	3JAMES L	115.0	345	365	0.3644	0.9967	0.9300	1.0700	0.9468	1.0465	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314852	3JMS L T	115.0	345	365	0.3650	0.9971	0.9300	1.0700	0.9472	1.0469	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314853	3LEXNGTN	115.0	345	365	0.3734	1.0020	0.9300	1.0700	0.9519	1.0522	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314854	6LEXNGT1	230.0	345	365	0.3781	0.9902	0.9300	1.0700	0.9407	1.0397	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314855	6LOWMOOR	230.0	345	365	0.3477	0.9775	0.9300	1.0700	0.9286	1.0264	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314856	6LEXNGT2	230.0	345	365	0.3781	0.9902	0.9300	1.0700	0.9407	1.0397	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314857	4LOWMOOR	138.0	345	365	0.3458	1.0310	0.9300	1.0700	0.9794	1.0825	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314858	3ROCKB T	115.0	345	365	0.3667	0.9978	0.9300	1.0700	0.9479	1.0477	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314859	4WSTVACO	138.0	345	365	0.3247	1.0168	0.9300	1.0700	0.9660	1.0677	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314860	4E MILL	138.0	345	365	0.3255	1.0174	0.9300	1.0700	0.9665	1.0683	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314861	2SKIMMER	115.0	345	365	0.7498	0.9727	0.9300	1.0700	0.9240	1.0213	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314894	4LOWMO	138.0	345	365	0.3459	1.0315	0.9300	1.0700	0.9799	1.0831	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314901	8BATH CO	500.0	345	366	0.4040	1.0500	0.9300	1.0700	0.9975	1.1025	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
314912	8LEXNGTN	500.0	345	366	0.4148	1.0455	0.9300	1.0700	0.9932	1.0977	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
315165	1HURT 1	13.8	345	358	0.8563	1.0079	0.9300	1.0700	0.9575	1.0583	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
315166	1HURT 2	13.8	345	358	0.8563	1.0079	0.9300	1.0700	0.9575	1.0583	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
315201	1BATH 1A	20.5	345	366	0.4124	1.0363	0.9300	1.0700	0.9845	1.0881	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
315202	1BATH 2B	20.5	345	366	0.4196	1.0363	0.9300	1.0700	0.9845	1.0881	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
315203	1BATH 3C	20.5	345	366	0.4197	1.0360	0.9300	1.0700	0.9842	1.0878	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
315204	1BATH 4D	20.5	345	366	0.4109	1.0361	0.9300	1.0700	0.9843	1.0879	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
315205	1BATH 5E	20.5	345	366	0.4111	1.0366	0.9300	1.0700	0.9847	1.0884	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
315206	1BATH 6F	20.5	345	366	0.4102	1.0366	0.9300	1.0700	0.9848	1.0885	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
B50510	BATH 3W1	1.0	345	366	0.3953	1.0241	0.9300	1.0700	0.9729	1.0753	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
B50511	BATH 3W3	1.0	345	366	0.3913	1.0231	0.9300	1.0700	0.9719	1.0743	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
B50512	BATH 3W5	1.0	345	366	0.3913	1.0237	0.9300	1.0700	0.9725	1.0749	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI
B51090	HURT 3WD	1.0	345	358	0.8244	1.0002	0.9300	1.0700	0.9502	1.0502	LD	49829	D:8BATH CO-8VALLEY 1 +8DOOMS -8LEXNGTNI

CATEGORY D

AC Branch Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- WED, FEB 20 2013 12:28 <BRV003.0>
2021 SUMMER BASE CASE (ERAG/MMWG22S11) REV. 04/02/2012
2013 LF WPRE
Case.File X:\S2021\sum_2021(2013LF)_wpre.sav
Subsys.File X:\S2015\vdvp.sub
Monit.File X:\S2015\vdvapsys.mon
Contin.File X:\S2021\2015 Category D.con
Exclud.File none

***** Report on violations *****

Branches with MVA flow more than 99.0 % of nominal rating

**	From bus	**	**	To bus	**	CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314682	3BUGGS I	115	315151	1BUGGS 2	13.8	TR	TR	69.9	69.9	70.0	99.8	**	Base Case **
313810	6DAHLGREN	230	314131	GARNOLDS	230	LN	LN	762.0	200.3	699.0	109.0	1	ROW 436
313818	6BENCHRCH	230	314398	6NP NEWS	230	LN	LN	1394.2	364.5	672.0	207.5	1	ROW 436
313818	6BENCHRCH	230	314522	6CHCKTUK	230	LN	LN	1423.1	391.3	672.0	211.8	1	ROW 436
314131	GARNOLDS	230	314175	6COMORN	230	LN	LN	778.8	218.3	699.0	111.4	1	ROW 436
314132	6BIRCHWD	230	314175	6COMORN	230	LN	LN	786.0	224.6	699.0	112.4	1	ROW 436
314398	6NP NEWS	230	314399	6PEMBROK	230	LN	LN	1225.2	251.6	549.0	223.2	1	ROW 436
314399	6PEMBROK	230	314407	6SHELEBK	230	LN	LN	1225.3	251.8	549.0	223.2	1	ROW 436
314414	3WARWICK	115	314417	3WHEALTN	115	LN	LN	223.3	105.8	223.0	100.2	1	ROW 436
314416	6WARWICK	230	314418	6WHEALTN	230	LN	LN	615.3	88.2	541.0	113.7	1	ROW 436
314418	6WHEALTN	230	314421	6WINCHST	230	LN	LN	967.7	295.0	671.0	144.2	1	ROW 436
314421	6WINCHST	230	314540	6POOLSVL	230	LN	LN	1165.8	400.3	650.0	179.3	1	ROW 436
314522	6CHCKTUK	230	314525	6KINGSFO	230	LN	LN	929.3	6.4	830.0	112.0	1	ROW 436
314525	6KINGSFO	230	314537	6SUFFOLK	230	LN	LN	962.9	48.1	830.0	116.0	1	ROW 436
314538	6SUFFOLK	230	314540	6POOLSVL	230	LN	LN	1174.6	418.3	830.0	141.5	1	ROW 436
314278	6BERMUDA	230	314286	6CHSTF A	230	LN	LN	762.3	82.6	541.0	140.9	4	ROW 567
314278	6BERMUDA	230	314303	6HOPEWLL	230	LN	LN	762.4	82.8	549.0	138.9	4	ROW 567
314287	6CHSTF B	230	314303	6HOPEWLL	230	LN	LN	605.7	36.0	549.0	110.3	4	ROW 567
314339	6SPRUNCE	230	315083	1SPRUNCA	13.8	TR	TR	69.9	59.6	67.5	103.5	4	ROW 567
314377	3DOW 34	115	314378	3FTEUS34	115	LN	LN	118.4	69.7	103.0	115.0	4	ROW 567
314377	3DOW 34	115	314387	3LANEXA	115	LN	LN	120.0	71.3	103.0	116.5	4	ROW 567
314378	3FTEUS34	115	314381	3GRAFT34	115	LN	LN	104.8	56.9	103.0	101.8	4	ROW 567
313812	6ROCKLANDING	230	314423	6YORKTWN	230	LN	LN	583.2	59.7	541.0	107.8	5	ROW 568

**	From bus	** **	To bus	** CKT	Type	ContMVA	BaseFlo w	Rating	Loading %	Ncon	Contingency Description
314214	6CHCKAHM	230	314390 6LIGH285	230	LN	1108.0	421.0	830.0	133.5	5	ROW 568
314214	6CHCKAHM	230	314903 8CHCKAHM	500	TR	947.6	451.8	944.6	100.3	5	ROW 568
314296	6PENNMIMAN	230	314386 6KINGS M	230	LN	752.2	191.2	541.0	139.0	5	ROW 568
314296	6PENNMIMAN	230	314415 6WALR209	230	LN	773.5	208.2	541.0	143.0	5	ROW 568
314339	6SPRUNCE	230	315083 1SPRUNCA	13.8	TR	69.9	59.6	67.5	103.5	5	ROW 568
314376	6DENBIGH	230	314413 6WALR285	230	LN	854.7	259.5	830.0	103.0	5	ROW 568
314377	3DOW 34	115	314378 3FTEUS34	115	LN	211.3	69.7	103.0	205.1	5	ROW 568
314377	3DOW 34	115	314387 3LANEXA	115	LN	214.1	71.3	103.0	207.9	5	ROW 568
314378	3FTEUS34	115	314381 3GRAFT34	115	LN	186.4	56.9	103.0	180.9	5	ROW 568
314384	3KINGS M	115	314411 3TOANO58	115	LN	204.2	74.3	169.0	120.8	5	ROW 568
314386	6KINGS M	230	314423 6YORKTWN	230	LN	718.2	166.2	541.0	132.8	5	ROW 568
314387	3LANEXA	115	314396 3NNEWS58	115	LN	245.9	103.5	169.0	145.5	5	ROW 568
314388	6LANEXA	230	314391 6LIGH209	230	LN	969.3	333.6	812.0	119.4	5	ROW 568
314390	6LIGH285	230	314413 6WALR285	230	LN	984.6	331.6	830.0	118.6	5	ROW 568
314391	6LIGH209	230	314415 6WALR209	230	LN	896.1	282.5	541.0	165.6	5	ROW 568
314396	3NNEWS58	115	314411 3TOANO58	115	LN	245.9	103.5	169.0	145.5	5	ROW 568
313818	6BENCHRCH	230	314398 6NP NEWS	230	LN	812.5	364.5	672.0	120.9	6	Chickahominy
313818	6BENCHRCH	230	314522 6CHCKTUK	230	LN	847.7	391.3	672.0	126.1	6	Chickahominy
314243	3PROV 92	115	314252 3TURNR92	115	LN	270.8	78.7	249.0	108.8	6	Chickahominy
314243	3PROV 92	115	314387 3LANEXA	115	LN	249.3	67.8	249.0	100.1	6	Chickahominy
314252	3TURNR92	115	314284 3CHSTFLD	115	LN	313.8	108.5	249.0	126.0	6	Chickahominy
314398	6NP NEWS	230	314399 6PEMBROK	230	LN	681.9	251.6	549.0	124.2	6	Chickahominy
314399	6PEMBROK	230	314407 6SHELBNK	230	LN	681.0	251.8	549.0	124.0	6	Chickahominy
314421	6WINCHST	230	314540 6POOLSVL	230	LN	759.7	400.3	650.0	116.9	6	Chickahominy
314377	3DOW 34	115	314378 3FTEUS34	115	LN	107.9	69.7	103.0	104.7	9	Yorktown
314377	3DOW 34	115	314387 3LANEXA	115	LN	109.5	71.3	103.0	106.3	9	Yorktown

AC Bus Voltage Violations

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- WED, FEB 20 2013 12:29 <VOW003.0>
2021 SUMMER BASE CASE (ERAG/MMWG22S11) REV. 04/02/2012
2013 LF WPRE
Case File X:\S2021\sum_2021(2013LF)_wpre.sav
Subsys File X:\S2015\divp.sub
Monit. File X:\S2015\vapsys.mon
Contn. File X:\S2021\2015 Category D.con
Exclud. File none

***** Report on violations *****

Buses with voltage violations

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	Upplimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
313803	30AKRI44	115.0	345	360	0.9308	0.9949	0.9300	1.0700	0.9452	1.0447	D	1	ROW 436
313810	6DAHLGREN	230.0	345	354	0.7107	0.9905	0.9300	1.0700	0.9410	1.0401	LD	1	ROW 436
313812	6ROCKLAND	230.0	345	356	0.4959	1.0018	0.9300	1.0700	0.9517	1.0519	LD	1	ROW 436
313813	30CRAN	115.0	345	354	0.4058	0.9927	0.9300	1.0700	0.9431	1.0423	LD	1	ROW 436
313818	6BENCHRCH	230.0	345	360	0.7879	1.0197	0.9300	1.0700	0.9687	1.0707	LD	1	ROW 436
313828	3WHITEMAR	115.0	345	354	0.4455	0.9982	0.9300	1.0700	0.9483	1.0481	LD	1	ROW 436
314131	6ARNOLDS	230.0	345	354	0.7913	0.9959	0.9300	1.0700	0.9461	1.0457	LD	1	ROW 436
314132	6BTRCHWD	230.0	345	354	0.8478	1.0000	0.9300	1.0700	0.9500	1.0500	LD	1	ROW 436
314134	6CRANES	230.0	345	353	0.9543	1.0072	0.9300	1.0700	0.9569	1.0576	D	1	ROW 436
314137	6FREDBERG	230.0	345	353	0.9451	1.0071	0.9300	1.0700	0.9568	1.0575	D	1	ROW 436
314138	6MINE RD	230.0	345	355	0.9544	1.0052	0.9300	1.0700	0.9549	1.0554	D	1	ROW 436
314139	6OAKGROV	230.0	345	354	0.6179	0.9897	0.9300	1.0700	0.9403	1.0392	LD	1	ROW 436
314163	6FINES	230.0	345	353	0.8958	1.0032	0.9300	1.0700	0.9530	1.0533	LD	1	ROW 436
314172	6DUNNSVL	230.0	345	354	0.4958	0.9904	0.9300	1.0700	0.9409	1.0400	LD	1	ROW 436
314173	3GARNER	115.0	345	354	0.4355	0.9919	0.9300	1.0700	0.9423	1.0415	LD	1	ROW 436
314174	3HARMONY	115.0	345	354	0.4124	0.9965	0.9300	1.0700	0.9467	1.0463	LD	1	ROW 436
314175	6COMORN	230.0	345	354	0.8015	0.9967	0.9300	1.0700	0.9469	1.0465	LD	1	ROW 436
314176	6HARMONY	230.0	345	354	0.4272	1.0030	0.9300	1.0700	0.9529	1.0532	LD	1	ROW 436
314177	3BAYES89	115.0	345	354	0.4581	0.9984	0.9300	1.0700	0.9485	1.0484	LD	1	ROW 436
314178	3LANCAST	115.0	345	354	0.4085	0.9935	0.9300	1.0700	0.9438	1.0431	LD	1	ROW 436
314180	6HAYES	230.0	345	354	0.4814	1.0083	0.9300	1.0700	0.9579	1.0587	LD	1	ROW 436
314181	3NORNECK	115.0	345	354	0.4967	1.0011	0.9300	1.0700	0.9510	1.0511	LD	1	ROW 436
314182	6NORNECK	230.0	345	354	0.5189	0.9873	0.9300	1.0700	0.9379	1.0366	LD	1	ROW 436
314183	6SANDERS	230.0	345	354	0.5360	0.9875	0.9300	1.0700	0.9381	1.0369	LD	1	ROW 436
314184	3SHACKLE	115.0	345	354	0.4194	0.9928	0.9300	1.0700	0.9431	1.0424	LD	1	ROW 436
314187	3WAN 176	115.0	345	354	0.3811	0.9794	0.9300	1.0700	0.9304	1.0283	LD	1	ROW 436

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Upplimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314188	3WEST PT	115.0	345	354	0.4223	0.9910	0.9300	1.0700	0.9415	1.0406	LD	1	ROW 436
314189	6PAPERHILL	230.0	345	354	0.4363	1.0010	0.9300	1.0700	0.9509	1.0510	LD	1	ROW 436
314190	6WESTWOR	230.0	345	354	0.5672	0.9887	0.9392	1.0700	0.9392	1.0381	LD	1	ROW 436
314191	3WHITE S	115.0	345	354	0.4063	0.9927	0.9300	1.0700	0.9430	1.0423	LD	1	ROW 436
314206	3OKARIDG	115.0	345	360	0.9346	0.9990	0.9300	1.0700	0.9490	1.0489	D	1	ROW 436
314261	3OKARI_1	115.0	345	360	0.9351	0.9995	0.9300	1.0700	0.9495	1.0494	D	1	ROW 436
314296	6PENNINGAN	230.0	345	356	0.4605	1.0006	0.9300	1.0700	0.9506	1.0506	LD	1	ROW 436
314371	3AMOCO Y	115.0	345	356	0.4591	0.9849	0.9300	1.0700	0.9357	1.0342	LD	1	ROW 436
314372	3BLOXOMC	115.0	345	356	0.4748	0.9895	0.9300	1.0700	0.9400	1.0389	LD	1	ROW 436
314373	3COLONY	115.0	345	356	0.4606	0.9840	0.9300	1.0700	0.9348	1.0332	LD	1	ROW 436
314374	3COPELAND	115.0	345	356	0.4884	0.9961	0.9300	1.0700	0.9463	1.0459	LD	1	ROW 436
314375	6CORRTN	230.0	345	354	0.4412	1.0018	0.9300	1.0700	0.9517	1.0519	LD	1	ROW 436
314376	6DENBIGH	230.0	345	356	0.4759	1.0023	0.9300	1.0700	0.9522	1.0524	LD	1	ROW 436
314377	3DOM 34	115.0	345	356	0.4396	0.9863	0.9300	1.0700	0.9370	1.0356	LD	1	ROW 436
314378	3FTEUS34	115.0	345	356	0.4408	0.9838	0.9300	1.0700	0.9346	1.0330	LD	1	ROW 436
314379	3FTEUS58	115.0	345	356	0.4247	0.9703	0.9300	1.0700	0.9217	1.0188	LD	1	ROW 436
314380	6FREDB 1	230.0	345	353	0.9479	1.0101	0.9300	1.0700	0.9596	1.0606	D	1	ROW 436
314381	3GRAFT34	115.0	345	356	0.4486	0.9828	0.9300	1.0700	0.9336	1.0319	LD	1	ROW 436
314382	3GRAFT58	115.0	345	356	0.4390	0.9765	0.9300	1.0700	0.9277	1.0253	LD	1	ROW 436
314384	3KINGS M	115.0	345	356	0.4143	0.9663	0.9300	1.0700	0.9180	1.0146	LD	1	ROW 436
314385	3HARMO 1	115.0	345	354	0.4127	0.9972	0.9300	1.0700	0.9473	1.0470	LD	1	ROW 436
314386	6KINGS M	230.0	345	356	0.4637	1.0015	0.9300	1.0700	0.9515	1.0516	LD	1	ROW 436
314387	3LANEXA	115.0	345	356	0.4353	0.9928	0.9300	1.0700	0.9432	1.0424	LD	1	ROW 436
314388	6LANEXA	230.0	345	356	0.4480	1.0032	0.9300	1.0700	0.9530	1.0533	LD	1	ROW 436
314389	3LEBAN58	115.0	345	356	0.4197	0.9679	0.9300	1.0700	0.9195	1.0163	LD	1	ROW 436
314391	6LIGH209	230.0	345	356	0.4518	0.9990	0.9300	1.0700	0.9490	1.0489	LD	1	ROW 436
314392	3MAGRUDR	115.0	345	356	0.4866	0.9960	0.9300	1.0700	0.9462	1.0459	LD	1	ROW 436
314393	3MERCURY	115.0	345	356	0.4850	0.9956	0.9300	1.0700	0.9458	1.0454	LD	1	ROW 436
314394	3NASAS	115.0	345	356	0.4838	0.9940	0.9300	1.0700	0.9443	1.0437	LD	1	ROW 436
314395	3HARMO 2	115.0	345	354	0.4126	0.9970	0.9300	1.0700	0.9471	1.0468	LD	1	ROW 436
314396	3NEW558	115.0	345	356	0.4245	0.9814	0.9300	1.0700	0.9323	1.0305	LD	1	ROW 436
314397	3NNW575	115.0	345	356	0.4884	0.9961	0.9300	1.0700	0.9463	1.0459	LD	1	ROW 436
314398	6NP NEWS	230.0	345	356	0.5923	1.0072	0.9300	1.0700	0.9569	1.0576	LD	1	ROW 436
314399	6PMBROK	230.0	345	356	0.5651	1.0033	0.9300	1.0700	0.9531	1.0535	LD	1	ROW 436
314400	3LANCA 1	115.0	345	354	0.4067	0.9940	0.9300	1.0700	0.9443	1.0437	LD	1	ROW 436
314401	3PENINSL	115.0	345	356	0.4838	0.9940	0.9300	1.0700	0.9443	1.0437	LD	1	ROW 436
314402	6PENINSL	230.0	345	356	0.5103	1.0006	0.9300	1.0700	0.9505	1.0506	LD	1	ROW 436
314403	3SEAFD76	115.0	345	356	0.4637	0.9866	0.9300	1.0700	0.9373	1.0360	LD	1	ROW 436
314404	3SEAFD79	115.0	345	356	0.4630	0.9862	0.9300	1.0700	0.9369	1.0355	LD	1	ROW 436
314406	3SHELBNK	115.0	345	356	0.4940	1.0008	0.9300	1.0700	0.9508	1.0508	LD	1	ROW 436
314407	6SHELBNK	230.0	345	356	0.5384	1.0091	0.9300	1.0700	0.9492	1.0491	LD	1	ROW 436
314409	6TABB	230.0	345	356	0.4988	1.0020	0.9300	1.0700	0.9519	1.0521	LD	1	ROW 436
314411	3TOANO58	115.0	345	356	0.4231	0.9799	0.9300	1.0700	0.9309	1.0289	LD	1	ROW 436
314412	3U CARBD	115.0	345	356	0.4839	0.9941	0.9300	1.0700	0.9444	1.0438	LD	1	ROW 436

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	UppLimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314413	6WALR285	230.0		345	356	0.4657	0.9300	1.0700	0.9466	1.0462	LD		1 ROW 436
314414	3MARWICK	115.0		345	356	0.4712	0.9890	1.0700	0.9396	1.0385	LD		1 ROW 436
314415	6WALR209	230.0		345	356	0.4545	0.9988	1.0700	0.9488	1.0488	LD		1 ROW 436
314416	6MARWICK	230.0		345	356	0.4993	1.0015	1.0700	0.9514	1.0515	LD		1 ROW 436
314417	3WHEALTN	115.0		345	356	0.4900	0.9971	1.0700	0.9472	1.0469	LD		1 ROW 436
314418	6WHEALTN	230.0		345	356	0.5102	1.0012	1.0700	0.9512	1.0513	LD		1 ROW 436
314420	3PENTIN 1	115.0		345	356	0.4840	0.9945	1.0700	0.9448	1.0442	LD		1 ROW 436
314421	6WINCHST	230.0		345	356	0.5112	1.0010	1.0700	0.9510	1.0511	LD		1 ROW 436
314422	3YORKTWN	115.0		345	356	0.4592	0.9850	1.0700	0.9358	1.0343	LD		1 ROW 436
314423	6YORKTWN	230.0		345	356	0.4838	1.0070	1.0700	0.9566	1.0573	LD		1 ROW 436
314424	3YNWS 58	115.0		345	356	0.4182	0.9673	1.0700	0.9190	1.0157	LD		1 ROW 436
314425	3YORK PS	115.0		345	356	0.4596	0.9852	1.0700	0.9359	1.0344	LD		1 ROW 436
314440	6LANEX 1	230.0		345	356	0.4489	1.0052	1.0700	0.9550	1.0555	LD		1 ROW 436
314442	6NP NE 1	230.0		345	356	0.5935	1.0093	1.0700	0.9588	1.0597	LD		1 ROW 436
314445	6WHEAL 1	230.0		345	356	0.5112	1.0033	1.0700	0.9531	1.0534	LD		1 ROW 436
314450	6YORKT 1	230.0		345	356	0.4854	1.0103	1.0700	0.9598	1.0608	LD		1 ROW 436
314452	3CHRHIND	115.0		345	359	0.9483	1.0019	1.0700	0.9518	1.0519	D		1 ROW 436
314453	6CHRHIND	230.0		345	359	0.9489	1.0087	1.0700	0.9583	1.0591	D		1 ROW 436
314475	6HARBORV	230.0		345	359	0.9469	1.0139	1.0700	0.9632	1.0646	D		1 ROW 436
314484	6HARBORV2	230.0		345	359	0.9406	1.0074	1.0700	0.9571	1.0578	D		1 ROW 436
314485	6LK KING	230.0		345	359	0.9495	1.0087	1.0700	0.9583	1.0591	D		1 ROW 436
314497	6SEWLSPT	230.0		345	359	0.9474	1.0062	1.0700	0.9559	1.0565	D		1 ROW 436
314500	6NAVYS	230.0		345	359	0.9474	1.0062	1.0700	0.9559	1.0565	D		1 ROW 436
314501	6NAVYS1	230.0		345	359	0.9474	1.0062	1.0700	0.9559	1.0565	D		1 ROW 436
314505	6NAVYN1	230.0		345	359	0.9475	1.0063	1.0700	0.9559	1.0566	D		1 ROW 436
314510	6NAVYN1	230.0		345	359	0.9472	1.0060	1.0700	0.9557	1.0563	D		1 ROW 436
314522	6CHCKTUK	230.0		345	360	0.8104	1.0214	1.0700	0.9703	1.0725	LD		1 ROW 436
314523	6CRITTON	230.0		345	360	0.9207	1.0057	1.0700	0.9554	1.0559	LD		1 ROW 436
314525	6KINGSFO	230.0		345	360	0.8860	1.0218	1.0700	0.9707	1.0729	LD		1 ROW 436
314528	31VOR106	115.0		345	360	0.9341	0.9986	1.0700	0.9487	1.0485	D		1 ROW 436
314529	3KINGS F	115.0		345	360	0.9337	0.9981	1.0700	0.9482	1.0480	D		1 ROW 436
314531	3MYRTLE	115.0		345	360	0.9255	0.9900	1.0700	0.9405	1.0395	LD		1 ROW 436
314532	3OKR123	115.0		345	360	0.9346	0.9989	1.0700	0.9489	1.0489	D		1 ROW 436
314533	6SMITFLD	230.0		345	360	0.8978	1.0083	1.0700	0.9579	1.0587	LD		1 ROW 436
314535	3SUFFCAP	115.0		345	360	0.9335	0.9975	1.0700	0.9476	1.0473	D		1 ROW 436
314536	3SUFFOLK	115.0		345	360	0.9335	0.9974	1.0700	0.9475	1.0473	D		1 ROW 436
314537	6SUFFOLK	230.0		345	360	0.9526	1.0233	1.0700	0.9721	1.0745	D		1 ROW 436
314538	6SURREY	230.0		345	360	0.8590	1.0087	1.0700	0.9482	1.0492	LD		1 ROW 436
314540	6POOLSVL	230.0		345	360	0.7929	1.0054	1.0700	0.9551	1.0557	LD		1 ROW 436
314542	3WINDSOR	115.0		345	360	0.9236	0.9882	1.0700	0.9388	1.0376	LD		1 ROW 436
314543	6GRAVELA	230.0		345	360	0.8593	1.0087	1.0700	0.9583	1.0592	LD		1 ROW 436
314544	6GRAVELB	230.0		345	360	0.8593	1.0087	1.0700	0.9583	1.0592	LD		1 ROW 436
314546	6SUNBURY	230.0		345	361	0.9619	1.0169	1.0700	0.9661	1.0678	D		1 ROW 436
314553	6CHRHIL 1	230.0		345	359	0.9508	1.0107	1.0700	0.9602	1.0613	D		1 ROW 436

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Upplimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314661	3SUFFC 1	115.0	345	360	0.9340	0.9980	0.9300	1.0700	0.9481	1.0479 D		1	ROW 436
314823	3SUFFO 1	115.0	345	360	0.9340	0.9979	0.9300	1.0700	0.9480	1.0478 D		1	ROW 436
314828	6CHCKT 1	230.0	345	360	0.8129	1.0245	0.9300	1.0700	0.9733	1.0757 LD		1	ROW 436
315033	1BRCHWDA	18.0	345	354	0.8554	0.9730	0.9300	1.0700	0.9243	1.0216 LD		1	ROW 436
315091	1YORKTN2	18.0	345	356	0.4592	0.9850	0.9300	1.0700	0.9358	1.0343 LD		1	ROW 436
315092	1YORKTN3	25.0	345	356	0.4838	1.0070	0.9300	1.0700	0.9566	1.0573 LD		1	ROW 436
315116	1ISURRY 1	22.0	345	360	0.8712	0.9859	0.9300	1.0700	0.9366	1.0352 LD		1	ROW 436
315119	1GRAVEL3	13.8	345	360	0.8896	1.0034	0.9300	1.0700	0.9532	1.0536 LD		1	ROW 436
315120	1GRAVEL4	13.8	345	360	0.8898	1.0034	0.9300	1.0700	0.9532	1.0536 LD		1	ROW 436
315121	1GRAVEL5	13.8	345	360	0.8898	1.0025	0.9300	1.0700	0.9523	1.0526 LD		1	ROW 436
315122	1GRAVEL6	13.8	345	360	0.8916	1.0027	0.9300	1.0700	0.9525	1.0528 LD		1	ROW 436
315093	1SPRUNCA	13.8	345	357	1.0441	0.9935	0.9300	1.0700	0.9438	1.0432 R		4	ROW 567
315085	1SPRUNCC	13.8	345	357	1.0511	0.9951	0.9300	1.0700	0.9453	1.0448 R		4	ROW 567
315110	1ELIZAR3	13.8	345	359	1.0343	0.9815	0.9300	1.0700	0.9325	1.0306 R		4	ROW 567
315226	1N ANNA2	22.0	345	366	1.0731	1.0628	0.9300	1.0700	1.0096	1.1159 H		4	ROW 567
313809	6MT RD212	230.0	345	355	0.9455	0.9963	0.9300	1.0700	0.9465	1.0461 D		5	ROW 568
313810	6DAHIGREN	230.0	345	354	0.9011	0.9905	0.9300	1.0700	0.9410	1.0401 LD		5	ROW 568
313811	6ELKO L28	230.0	345	355	0.8867	1.0061	0.9300	1.0700	0.9558	1.0564 LD		5	ROW 568
313812	6ROCKLAND	230.0	345	356	0.5304	1.0018	0.9300	1.0700	0.9517	1.0519 LD		5	ROW 568
313813	3OCPRAN	115.0	345	354	0.6943	0.9927	0.9300	1.0700	0.9431	1.0423 LD		5	ROW 568
313828	3WHITEMAR	115.0	345	354	0.6000	0.9982	0.9300	1.0700	0.9483	1.0481 LD		5	ROW 568
314131	6ARNOLDS	230.0	345	354	0.9349	0.9959	0.9300	1.0700	0.9461	1.0457 D		5	ROW 568
314139	6OKARGOV	230.0	345	354	0.8625	0.9897	0.9300	1.0700	0.9403	1.0392 LD		5	ROW 568
314172	6DUNNSVL	230.0	345	354	0.8032	0.9904	0.9300	1.0700	0.9409	1.0400 LD		5	ROW 568
314173	3GARNIER	115.0	345	354	0.7412	0.9919	0.9300	1.0700	0.9423	1.0415 LD		5	ROW 568
314174	3HARMONY	115.0	345	354	0.6800	0.9965	0.9300	1.0700	0.9467	1.0463 LD		5	ROW 568
314175	6COMORN	230.0	345	354	0.9391	0.9967	0.9300	1.0700	0.9469	1.0465 D		5	ROW 568
314176	6HARMONY	230.0	345	354	0.7291	1.0030	0.9300	1.0700	0.9529	1.0532 LD		5	ROW 568
314177	3HAYES89	115.0	345	354	0.5757	0.9984	0.9300	1.0700	0.9485	1.0484 LD		5	ROW 568
314178	3LANCAST	115.0	345	354	0.6996	0.9935	0.9300	1.0700	0.9438	1.0431 LD		5	ROW 568
314180	6HAYES	230.0	345	354	0.5611	1.0083	0.9300	1.0700	0.9579	1.0587 LD		5	ROW 568
314181	3NORNECK	115.0	345	354	0.6019	1.0011	0.9300	1.0700	0.9510	1.0511 LD		5	ROW 568
314182	6NORNECK	230.0	345	354	0.8135	0.9873	0.9300	1.0700	0.9379	1.0366 LD		5	ROW 568
314183	6SANDERS	230.0	345	354	0.8228	0.9875	0.9300	1.0700	0.9381	1.0369 LD		5	ROW 568
314184	3SHACKLE	115.0	345	354	0.6883	0.9928	0.9300	1.0700	0.9431	1.0424 LD		5	ROW 568
314187	3WAN L76	115.0	345	354	0.6525	0.9794	0.9300	1.0700	0.9304	1.0283 LD		5	ROW 568
314188	3WEST PT	115.0	345	354	0.6930	0.9910	0.9300	1.0700	0.9415	1.0406 LD		5	ROW 568
314189	6PAPERMIH	230.0	345	354	0.7536	1.0010	0.9300	1.0700	0.9509	1.0510 LD		5	ROW 568
314190	6WESTHOR	230.0	345	354	0.8388	0.9887	0.9300	1.0700	0.9392	1.0381 LD		5	ROW 568
314191	3WHITE S	115.0	345	354	0.6900	0.9927	0.9300	1.0700	0.9430	1.0423 LD		5	ROW 568
314211	3ACCA	115.0	345	355	0.9364	0.9901	0.9300	1.0700	0.9406	1.0397 D		5	ROW 568
314213	3CARVER	115.0	345	355	0.9306	0.9866	0.9300	1.0700	0.9373	1.0360 LD		5	ROW 568
314214	6CHCKRAHM	230.0	345	355	0.8633	1.0084	0.9300	1.0700	0.9580	1.0588 LD		5	ROW 568
314224	3LAKESD1	115.0	345	355	0.9460	0.9983	0.9300	1.0700	0.9484	1.0482 D		5	ROW 568

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Upplimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314226	3LAKESD2	115.0	345	355	0.9473	0.9997	0.9300	1.0700	0.9497	1.0497	D	5	ROW 568
314229	6MT R221	230.0	345	355	0.9463	0.9971	0.9300	1.0700	0.9472	1.0469	D	5	ROW 568
314234	3NTHST	115.0	345	355	0.9395	0.9995	0.9300	1.0700	0.9495	1.0495	D	5	ROW 568
314236	6NTHST	230.0	345	355	0.9371	1.0013	0.9300	1.0700	0.9512	1.0514	D	5	ROW 568
314237	3NTHST	115.0	345	355	0.9511	1.0012	0.9300	1.0700	0.9511	1.0512	D	5	ROW 568
314238	6NTHST	230.0	345	355	0.9457	0.9973	0.9300	1.0700	0.9475	1.0472	D	5	ROW 568
314241	6OLDHRC	230.0	345	355	0.9037	1.0023	0.9300	1.0700	0.9522	1.0524	LD	5	ROW 568
314242	6PEARSON	230.0	345	355	0.9287	1.0002	0.9300	1.0700	0.9502	1.0502	LD	5	ROW 568
314243	3PROV 92	115.0	345	355	0.7628	0.9921	0.9300	1.0700	0.9425	1.0417	LD	5	ROW 568
314245	6SOUTHWES	230.0	345	357	0.9469	1.0043	0.9300	1.0700	0.9541	1.0545	D	5	ROW 568
314246	3REF 60	115.0	345	355	0.9403	0.9931	0.9300	1.0700	0.9435	1.0428	D	5	ROW 568
314247	3RIVER86	115.0	345	355	0.9429	0.9954	0.9300	1.0700	0.9456	1.0452	D	5	ROW 568
314248	6RVR222	230.0	345	355	0.9425	0.9967	0.9300	1.0700	0.9468	1.0465	D	5	ROW 568
314249	3SHOCKOE	115.0	345	355	0.9266	0.9824	0.9300	1.0700	0.9332	1.0315	LD	5	ROW 568
314252	3TURN92	115.0	345	355	0.8724	0.9917	0.9300	1.0700	0.9421	1.0413	LD	5	ROW 568
314253	6TURNER	230.0	345	355	0.9078	1.0050	0.9300	1.0700	0.9548	1.0553	LD	5	ROW 568
314254	3TWELFTH	115.0	345	355	0.9431	0.9943	0.9300	1.0700	0.9446	1.0440	D	5	ROW 568
314256	3WECO 7	115.0	345	355	0.9298	0.9876	0.9300	1.0700	0.9382	1.0370	LD	5	ROW 568
314257	6WHITOK	230.0	345	355	0.8842	1.0063	0.9300	1.0700	0.9560	1.0566	LD	5	ROW 568
314258	6ELKO	230.0	345	355	0.8817	1.0065	0.9300	1.0700	0.9562	1.0568	LD	5	ROW 568
314271	6ALLIED	230.0	345	357	0.9033	1.0066	0.9300	1.0700	0.9562	1.0569	LD	5	ROW 568
314272	6ALPINE	230.0	345	357	0.9612	1.0065	0.9300	1.0700	0.9562	1.0569	LD	5	ROW 568
314274	3BASIN	115.0	345	357	0.9477	0.9977	0.9300	1.0700	0.9478	1.0475	D	5	ROW 568
314277	3BELLW72	115.0	345	357	0.9383	0.9986	0.9300	1.0700	0.9487	1.0486	D	5	ROW 568
314279	3BOWERI	115.0	345	357	0.9380	0.9988	0.9300	1.0700	0.9489	1.0487	D	5	ROW 568
314281	6BURDET	230.0	345	357	0.9060	1.0067	0.9300	1.0700	0.9563	1.0570	LD	5	ROW 568
314283	3CENTLIA	115.0	345	357	0.9365	0.9970	0.9300	1.0700	0.9471	1.0468	D	5	ROW 568
314284	3CHSTFLD	115.0	345	357	0.9376	1.0000	0.9300	1.0700	0.9500	1.0500	D	5	ROW 568
314286	6CHSTF A	230.0	345	357	0.9335	1.0087	0.9300	1.0700	0.9583	1.0591	D	5	ROW 568
314289	6DARBYTN	230.0	345	355	0.9285	1.0050	0.9300	1.0700	0.9548	1.0553	LD	5	ROW 568
314293	3DU PONT	115.0	345	357	0.9360	0.9911	0.9300	1.0700	0.9415	1.0406	D	5	ROW 568
314294	6GENON	230.0	345	357	0.9105	1.0069	0.9300	1.0700	0.9565	1.0572	LD	5	ROW 568
314296	6PENNIMAN	230.0	345	356	0.6261	1.0006	0.9300	1.0700	0.9506	1.0506	LD	5	ROW 568
314300	3KEVLAR	115.0	345	357	0.9355	0.9909	0.9300	1.0700	0.9414	1.0405	D	5	ROW 568
314304	6HNT222	230.0	345	357	0.9433	0.9990	0.9300	1.0700	0.9490	1.0489	D	5	ROW 568
314306	6HULL219	230.0	345	357	0.9497	1.0007	0.9300	1.0700	0.9507	1.0507	D	5	ROW 568
314308	6ICI	230.0	345	357	0.8984	1.0065	0.9300	1.0700	0.9562	1.0569	LD	5	ROW 568
314309	6IRON208	230.0	345	357	0.9378	1.0036	0.9300	1.0700	0.9535	1.0538	D	5	ROW 568
314313	3KINGSIN	115.0	345	357	0.9376	0.9991	0.9300	1.0700	0.9492	1.0491	D	5	ROW 568
314317	3MANCHST	115.0	345	357	0.9463	0.9991	0.9300	1.0700	0.9492	1.0491	D	5	ROW 568
314318	3MARLBRO	115.0	345	357	0.9403	0.9933	0.9300	1.0700	0.9436	1.0430	D	5	ROW 568
314319	3MAURY24	115.0	345	357	0.9463	0.9989	0.9300	1.0700	0.9490	1.0489	D	5	ROW 568
314323	3NC GAS	115.0	345	357	0.9401	0.9995	0.9300	1.0700	0.9495	1.0494	D	5	ROW 568
314324	3PIPELIN	115.0	345	357	0.9449	0.9960	0.9300	1.0700	0.9462	1.0458	D	5	ROW 568

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Upplim t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314327	3PLAZA	115.0	345	357	0.9462	1.0024	0.9300	1.0700	0.9523	1.0525	D	5	ROW 568
314328	6PLAZA	230.0	345	357	0.9420	0.9992	0.9300	1.0700	0.9492	1.0491	D	5	ROW 568
314332	3PORTR24	115.0	345	357	0.9463	0.9991	0.9300	1.0700	0.9492	1.0491	D	5	ROW 568
314336	3REYMT72	115.0	345	357	0.9375	0.9992	0.9300	1.0700	0.9492	1.0491	D	5	ROW 568
314338	6SOUTEST	230.0	345	357	0.9440	1.0013	0.9300	1.0700	0.9512	1.0514	D	5	ROW 568
314341	3STRATED	115.0	345	357	0.9366	0.9914	0.9300	1.0700	0.9419	1.0410	D	5	ROW 568
314344	3TYLER	115.0	345	357	0.9434	0.9991	0.9300	1.0700	0.9492	1.0491	D	5	ROW 568
314371	3AMOCO Y	115.0	345	356	0.5252	0.9849	0.9300	1.0700	0.9357	1.0342	LD	5	ROW 568
314372	3BLOXMC	115.0	345	356	0.4860	0.9895	0.9300	1.0700	0.9400	1.0389	LD	5	ROW 568
314373	3COLONY	115.0	345	356	0.5014	0.9840	0.9300	1.0700	0.9348	1.0332	LD	5	ROW 568
314374	3COLEND	115.0	345	356	0.5077	0.9961	0.9300	1.0700	0.9463	1.0459	LD	5	ROW 568
314375	6CORRTN	230.0	345	354	0.7625	1.0018	0.9300	1.0700	0.9517	1.0519	LD	5	ROW 568
314376	6DENBIGH	230.0	345	356	0.5714	1.0023	0.9300	1.0700	0.9522	1.0524	LD	5	ROW 568
314377	3DOW 34	115.0	345	356	0.5697	0.9863	0.9300	1.0700	0.9370	1.0356	LD	5	ROW 568
314378	3FTEUS34	115.0	345	356	0.5367	0.9703	0.9300	1.0700	0.9217	1.0188	LD	5	ROW 568
314379	3FTEUS58	115.0	345	356	0.5430	0.9828	0.9300	1.0700	0.9336	1.0319	LD	5	ROW 568
314381	3GRAFT34	115.0	345	356	0.5310	0.9765	0.9300	1.0700	0.9277	1.0253	LD	5	ROW 568
314382	3GRAFT58	115.0	345	356	0.5519	0.9663	0.9300	1.0700	0.9180	1.0146	LD	5	ROW 568
314384	3KINGS M	115.0	345	354	0.6805	0.9972	0.9300	1.0700	0.9473	1.0470	LD	5	ROW 568
314385	3HARMO 1	115.0	345	356	0.6141	1.0015	0.9300	1.0700	0.9515	1.0516	LD	5	ROW 568
314386	6KINGS M	230.0	345	356	0.7104	0.9928	0.9300	1.0700	0.9432	1.0424	LD	5	ROW 568
314387	3LANEXA	115.0	345	356	0.7739	1.0032	0.9300	1.0700	0.9530	1.0533	LD	5	ROW 568
314388	6LANEXA	230.0	345	356	0.5390	0.9679	0.9300	1.0700	0.9195	1.0163	LD	5	ROW 568
314389	3LEBAN58	115.0	345	356	0.6610	0.9966	0.9300	1.0700	0.9468	1.0465	LD	5	ROW 568
314390	6LIGH285	230.0	345	356	0.6788	0.9990	0.9300	1.0700	0.9490	1.0489	LD	5	ROW 568
314391	6LIGH209	230.0	345	356	0.5058	0.9960	0.9300	1.0700	0.9462	1.0459	LD	5	ROW 568
314392	3MAGRUDR	115.0	345	356	0.4962	0.9956	0.9300	1.0700	0.9458	1.0454	LD	5	ROW 568
314393	3MERCURY	115.0	345	356	0.5103	0.9940	0.9300	1.0700	0.9443	1.0437	LD	5	ROW 568
314394	3NASAS	115.0	345	354	0.6804	0.9970	0.9300	1.0700	0.9471	1.0468	LD	5	ROW 568
314396	3NNW58	115.0	345	356	0.6517	0.9814	0.9300	1.0700	0.9323	1.0305	LD	5	ROW 568
314397	3NNW575	115.0	345	356	0.5077	0.9961	0.9300	1.0700	0.9463	1.0459	LD	5	ROW 568
314398	6NP NEWS	230.0	345	356	0.5063	1.0072	0.9300	1.0700	0.9569	1.0576	LD	5	ROW 568
314399	6PEMBROK	230.0	345	356	0.5072	1.0033	0.9300	1.0700	0.9531	1.0535	LD	5	ROW 568
314400	3LANCA 1	115.0	345	354	0.6999	0.9940	0.9300	1.0700	0.9443	1.0437	LD	5	ROW 568
314401	3PENINSL	115.0	345	356	0.5102	0.9940	0.9300	1.0700	0.9443	1.0437	LD	5	ROW 568
314402	6PENINSL	230.0	345	356	0.5205	1.0006	0.9300	1.0700	0.9505	1.0506	LD	5	ROW 568
314403	3SEAF076	115.0	345	356	0.5201	0.9866	0.9300	1.0700	0.9373	1.0360	LD	5	ROW 568
314404	3SEAF079	115.0	345	356	0.5194	0.9862	0.9300	1.0700	0.9369	1.0355	LD	5	ROW 568
314406	3SHELBNK	115.0	345	356	0.5051	1.0008	0.9300	1.0700	0.9508	1.0508	LD	5	ROW 568
314407	6SHELBNK	230.0	345	356	0.5085	0.9991	0.9300	1.0700	0.9492	1.0491	LD	5	ROW 568
314408	6CHCKA 1	230.0	345	355	0.6659	1.0115	0.9300	1.0700	0.9609	1.0620	LD	5	ROW 568
314409	6TABB	230.0	345	356	0.5310	1.0020	0.9300	1.0700	0.9519	1.0521	LD	5	ROW 568
314411	3TOAN058	115.0	345	356	0.6441	0.9799	0.9300	1.0700	0.9309	1.0289	LD	5	ROW 568

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	UppLimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314412	3U CARBD	115.0		345	356	0.9941	0.9300	1.0700	0.9444	1.0438	LD		5 ROW 568
314413	6WALR285	230.0		345	356	0.9964	0.9300	1.0700	0.9466	1.0462	LD		5 ROW 568
314414	3WARWICK	115.0		345	356	0.9890	0.9300	1.0700	0.9396	1.0385	LD		5 ROW 568
314415	6WALR209	230.0		345	356	0.9988	0.9300	1.0700	0.9489	1.0488	LD		5 ROW 568
314416	6WARWICK	230.0		345	356	1.0015	0.9300	1.0700	0.9514	1.0515	LD		5 ROW 568
314417	3WHEALTN	115.0		345	356	0.9971	0.9300	1.0700	0.9472	1.0469	LD		5 ROW 568
314418	6WHEALTN	230.0		345	356	1.0012	0.9300	1.0700	0.9512	1.0513	LD		5 ROW 568
314419	6NRTWH 1	230.0		345	355	1.0003	0.9300	1.0700	0.9503	1.0503	D		5 ROW 568
314420	3PENIN 1	115.0		345	356	0.9945	0.9300	1.0700	0.9448	1.0442	LD		5 ROW 568
314421	6WINCHST	230.0		345	356	1.0010	0.9300	1.0700	0.9510	1.0511	LD		5 ROW 568
314422	3YORKTWN	115.0		345	356	0.9850	0.9300	1.0700	0.9358	1.0343	LD		5 ROW 568
314423	6YORKTWN	230.0		345	356	1.0070	0.9300	1.0700	0.9566	1.0573	LD		5 ROW 568
314424	3YNWS 58	115.0		345	356	0.9673	0.9300	1.0700	0.9190	1.0157	LD		5 ROW 568
314425	3YORK PS	115.0		345	356	0.9852	0.9300	1.0700	0.9359	1.0344	LD		5 ROW 568
314440	6LANEX 1	230.0		345	356	1.0052	0.9300	1.0700	0.9550	1.0555	LD		5 ROW 568
314442	6NP NE 1	230.0		345	356	1.0093	0.9300	1.0700	0.9588	1.0597	LD		5 ROW 568
314445	6WHEAL 1	230.0		345	356	1.0033	0.9300	1.0700	0.9531	1.0534	LD		5 ROW 568
314450	6YORKT 1	230.0		345	356	1.0103	0.9300	1.0700	0.9598	1.0608	LD		5 ROW 568
314903	8CRCKAHH	500.0		345	366	1.0379	0.9300	1.0700	0.9860	1.0898	D		5 ROW 568
315058	1CHESTFF3	14.4		345	357	0.9979	0.9300	1.0700	0.9480	1.0478	D		5 ROW 568
315062	1CHEST7	13.8		345	357	1.0307	0.9300	1.0700	0.9791	1.0822	D		5 ROW 568
315067	1DARBY 1	13.8		345	355	1.0394	0.9300	1.0700	0.9874	1.0913	D		5 ROW 568
315068	1DARBY 2	13.8		345	355	1.0395	0.9300	1.0700	0.9876	1.0915	D		5 ROW 568
315069	1DARBY 3	13.8		345	355	1.0393	0.9300	1.0700	0.9873	1.0913	D		5 ROW 568
315070	1DARBY 4	13.8		345	355	1.0394	0.9300	1.0700	0.9875	1.0914	D		5 ROW 568
315084	1SPRUNCB	13.8		345	357	0.9630	0.9300	1.0700	0.9148	1.0111	L		5 ROW 568
315086	1SPRUNCD	13.8		345	357	0.9648	0.9300	1.0700	0.9165	1.0130	L		5 ROW 568
315091	1YORKTN2	18.0		345	356	0.9850	0.9300	1.0700	0.9158	1.0343	LD		5 ROW 568
315092	1YORKTN3	25.0		345	356	1.0070	0.9300	1.0700	0.9566	1.0573	LD		5 ROW 568
313812	6ROCKLAND	230.0		345	356	1.0018	0.9300	1.0700	0.9517	1.0519	D		6 Chickahominy
313813	3OCRAN	115.0		345	354	0.9927	0.9300	1.0700	0.9431	1.0423	LD		6 Chickahominy
313828	3WHITEMAR	115.0		345	354	0.9981	0.9300	1.0700	0.9483	1.0481	D		6 Chickahominy
314172	6DUNNSVL	230.0		345	354	0.9904	0.9300	1.0700	0.9409	1.0400	D		6 Chickahominy
314173	3GARNER	115.0		345	354	0.9919	0.9300	1.0700	0.9423	1.0415	LD		6 Chickahominy
314174	3HARMONY	115.0		345	354	0.9965	0.9300	1.0700	0.9529	1.0532	D		6 Chickahominy
314176	6HARMONY	230.0		345	354	1.0030	0.9300	1.0700	0.9467	1.0463	D		6 Chickahominy
314177	3HAYES89	115.0		345	354	0.9984	0.9300	1.0700	0.9485	1.0484	b		6 Chickahominy
314178	3LANCAST	115.0		345	354	0.9935	0.9300	1.0700	0.9438	1.0431	LD		6 Chickahominy
314180	6HAYES	230.0		345	354	1.0083	0.9300	1.0700	0.9579	1.0587	D		6 Chickahominy
314181	3CORNECK	115.0		345	354	1.0011	0.9300	1.0700	0.9510	1.0511	D		6 Chickahominy
314182	6CORNECK	230.0		345	354	0.9873	0.9300	1.0700	0.9379	1.0366	D		6 Chickahominy
314183	6SANDERS	230.0		345	354	0.9875	0.9300	1.0700	0.9381	1.0369	D		6 Chickahominy
314184	3SHACKLE	115.0		345	354	0.9928	0.9300	1.0700	0.9431	1.0424	LD		6 Chickahominy
314187	3WAN 176	115.0		345	354	0.9794	0.9300	1.0700	0.9304	1.0283	LD		6 Chickahominy

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLimi t	Upplimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314188	3WEST PT	115.0	345	354	0.9236	0.9910	0.9300	1.0700	0.9415	1.0406	LD	6	Chickahominy
314189	6PAPER MILL	230.0	345	354	0.9390	1.0010	0.9300	1.0700	0.9509	1.0510	D	6	Chickahominy
314190	6WESTMOR	230.0	345	354	0.9382	0.9887	0.9300	1.0700	0.9392	1.0381	D	6	Chickahominy
314191	3WHITE S	115.0	345	354	0.9273	0.9927	0.9300	1.0700	0.9430	1.0423	LD	6	Chickahominy
314243	3PROV 92	115.0	345	355	0.9278	0.9921	0.9300	1.0700	0.9425	1.0417	LD	6	Chickahominy
314296	6PENNINGAN	230.0	345	356	0.9422	1.0006	0.9300	1.0700	0.9506	1.0506	D	6	Chickahominy
314371	3AMOCO Y	115.0	345	356	0.9274	0.9849	0.9300	1.0700	0.9357	1.0342	LD	6	Chickahominy
314372	3BLOXOMC	115.0	345	356	0.9353	0.9895	0.9300	1.0700	0.9400	1.0389	D	6	Chickahominy
314373	3COLONY	115.0	345	356	0.9283	0.9840	0.9300	1.0700	0.9348	1.0332	LD	6	Chickahominy
314374	3COPELAND	115.0	345	356	0.9424	0.9961	0.9300	1.0700	0.9463	1.0459	D	6	Chickahominy
314375	6CORRECTIN	230.0	345	354	0.9398	1.0018	0.9300	1.0700	0.9517	1.0519	D	6	Chickahominy
314376	6DENBIGH	230.0	345	356	0.9443	1.0023	0.9300	1.0700	0.9522	1.0524	D	6	Chickahominy
314377	3DOW 34	115.0	345	356	0.9232	0.9863	0.9300	1.0700	0.9370	1.0356	LD	6	Chickahominy
314378	3FTEUS34	115.0	345	356	0.9221	0.9838	0.9300	1.0700	0.9346	1.0330	LD	6	Chickahominy
314379	3FTEUS34	115.0	345	356	0.9101	0.9703	0.9300	1.0700	0.9217	1.0188	LD	6	Chickahominy
314381	3GRAFT34	115.0	345	356	0.9235	0.9828	0.9300	1.0700	0.9336	1.0319	LD	6	Chickahominy
314382	3GRAFT58	115.0	345	356	0.9176	0.9765	0.9300	1.0700	0.9277	1.0253	LD	6	Chickahominy
314384	3KINGS M	115.0	345	356	0.9047	0.9663	0.9300	1.0700	0.9180	1.0146	LD	6	Chickahominy
314385	3HARMO 1	115.0	345	354	0.9318	0.9972	0.9300	1.0700	0.9473	1.0470	D	6	Chickahominy
314386	6KINGS M	230.0	345	356	0.9434	1.0015	0.9300	1.0700	0.9515	1.0516	D	6	Chickahominy
314387	3LANEXA	115.0	345	356	0.9245	0.9928	0.9300	1.0700	0.9432	1.0424	LD	6	Chickahominy
314388	6LANEXA	230.0	345	356	0.9411	1.0032	0.9300	1.0700	0.9530	1.0533	D	6	Chickahominy
314389	3LEBAN58	115.0	345	356	0.9073	0.9679	0.9300	1.0700	0.9195	1.0163	LD	6	Chickahominy
314390	6LIGH285	230.0	345	356	0.9357	0.9966	0.9300	1.0700	0.9468	1.0465	D	6	Chickahominy
314391	6LIGH209	230.0	345	356	0.9396	0.9990	0.9300	1.0700	0.9490	1.0489	D	6	Chickahominy
314392	3MAGRUDR	115.0	345	356	0.9417	0.9960	0.9300	1.0700	0.9462	1.0459	D	6	Chickahominy
314393	3MERCURY	115.0	345	356	0.9416	0.9956	0.9300	1.0700	0.9458	1.0454	D	6	Chickahominy
314394	3NASA	115.0	345	356	0.9394	0.9940	0.9300	1.0700	0.9443	1.0437	D	6	Chickahominy
314395	3HARMO 2	115.0	345	354	0.9316	0.9970	0.9300	1.0700	0.9471	1.0468	D	6	Chickahominy
314396	3NEWS58	115.0	345	356	0.9154	0.9814	0.9300	1.0700	0.9323	1.0305	LD	6	Chickahominy
314397	3NEWS75	115.0	345	356	0.9424	0.9961	0.9300	1.0700	0.9463	1.0459	D	6	Chickahominy
314400	3LANCA 1	115.0	345	354	0.9281	0.9940	0.9300	1.0700	0.9443	1.0437	LD	6	Chickahominy
314401	3PENINSL	115.0	345	356	0.9393	0.9940	0.9300	1.0700	0.9443	1.0437	D	6	Chickahominy
314402	6PENINSL	230.0	345	356	0.9465	1.0006	0.9300	1.0700	0.9505	1.0506	D	6	Chickahominy
314403	3SEAFD76	115.0	345	356	0.9296	0.9866	0.9300	1.0700	0.9373	1.0360	LD	6	Chickahominy
314404	3SEAFD79	115.0	345	356	0.9292	0.9862	0.9300	1.0700	0.9369	1.0355	LD	6	Chickahominy
314406	3SHELBNK	115.0	345	356	0.9468	1.0008	0.9300	1.0700	0.9508	1.0508	D	6	Chickahominy
314407	6SHELBNK	230.0	345	356	0.9477	0.9979	0.9300	1.0700	0.9492	1.0491	D	6	Chickahominy
314409	6TABB	230.0	345	356	0.9468	1.0020	0.9300	1.0700	0.9519	1.0521	D	6	Chickahominy
314411	3TCANO58	115.0	345	356	0.9142	0.9799	0.9300	1.0700	0.9309	1.0289	LD	6	Chickahominy
314412	3U CARBD	115.0	345	356	0.9394	0.9941	0.9300	1.0700	0.9444	1.0438	D	6	Chickahominy
314413	6WALR285	230.0	345	356	0.9362	0.9964	0.9300	1.0700	0.9466	1.0462	D	6	Chickahominy
314414	3WARWICK	115.0	345	356	0.9341	0.9890	0.9300	1.0700	0.9396	1.0385	D	6	Chickahominy
314415	6WALR209	230.0	345	356	0.9400	0.9988	0.9300	1.0700	0.9489	1.0488	D	6	Chickahominy

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Upplimi t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314416	6WARWICK	230.0	345	356	0.9470	1.0015	0.9300	1.0700	0.9514	1.0515	D	6	Chickahominy
314417	3WHEALTN	115.0	345	356	0.9433	0.9971	0.9300	1.0700	0.9472	1.0469	D	6	Chickahominy
314418	6WHEALTN	230.0	345	356	0.9483	1.0012	0.9300	1.0700	0.9512	1.0513	D	6	Chickahominy
314420	3PENIN_1	115.0	345	356	0.9398	0.9945	0.9300	1.0700	0.9448	1.0442	D	6	Chickahominy
314421	6WINCHST	230.0	345	356	0.9475	1.0010	0.9300	1.0700	0.9510	1.0511	D	6	Chickahominy
314422	3YORKTWN	115.0	345	356	0.9275	0.9850	0.9300	1.0700	0.9358	1.0343	LD	6	Chickahominy
314423	6YORKTWN	230.0	345	356	0.9499	1.0070	0.9300	1.0700	0.9566	1.0573	D	6	Chickahominy
314424	3YNWS 58	115.0	345	356	0.9065	0.9673	0.9300	1.0700	0.9190	1.0157	LD	6	Chickahominy
314425	3YORK PS	115.0	345	356	0.9277	0.9852	0.9300	1.0700	0.9359	1.0344	LD	6	Chickahominy
314440	6LANEX 1	230.0	345	356	0.9430	1.0052	0.9300	1.0700	0.9550	1.0555	D	6	Chickahominy
314445	6WHEAL 1	230.0	345	356	0.9502	1.0033	0.9300	1.0700	0.9531	1.0534	D	6	Chickahominy
314450	6YORKT_1	230.0	345	356	0.9530	1.0103	0.9300	1.0700	0.9598	1.0608	D	6	Chickahominy
315091	1YORKTWN2	18.0	345	356	0.9275	0.9850	0.9300	1.0700	0.9358	1.0343	LD	6	Chickahominy
315092	1YORKTWN3	25.0	345	356	0.9499	1.0070	0.9300	1.0700	0.9566	1.0573	D	6	Chickahominy
313813	3OCRAH	115.0	345	354	0.9134	0.9927	0.9300	1.0700	0.9431	1.0423	LD	7	Lanexa
314139	6OKAGROV	230.0	345	354	0.9347	0.9897	0.9300	1.0700	0.9403	1.0392	D	7	Lanexa
314172	6DUNNSVL	230.0	345	354	0.9269	0.9904	0.9300	1.0700	0.9409	1.0400	LD	7	Lanexa
314173	3GARNER	115.0	345	354	0.9269	0.9919	0.9300	1.0700	0.9423	1.0415	LD	7	Lanexa
314174	3HARMONY	115.0	345	354	0.9133	0.9965	0.9300	1.0700	0.9467	1.0463	LD	7	Lanexa
314176	6HARMONY	230.0	345	354	0.8852	1.0030	0.9300	1.0700	0.9529	1.0532	LD	7	Lanexa
314178	3LANCAST	115.0	345	354	0.9148	0.9935	0.9300	1.0700	0.9438	1.0431	LD	7	Lanexa
314180	6HAYES	230.0	345	354	0.9569	1.0083	0.9300	1.0700	0.9579	1.0587	D	7	Lanexa
314182	6NORRICK	230.0	345	354	0.9134	0.9873	0.9300	1.0700	0.9379	1.0366	LD	7	Lanexa
314183	6SANDERS	230.0	345	354	0.9171	0.9875	0.9300	1.0700	0.9381	1.0369	LD	7	Lanexa
314184	3SHACKLE	115.0	345	354	0.9063	0.9928	0.9300	1.0700	0.9431	1.0424	LD	7	Lanexa
314187	3WAN 176	115.0	345	354	0.8942	0.9794	0.9300	1.0700	0.9304	1.0283	LD	7	Lanexa
314188	3WEST PT	115.0	345	354	0.9038	0.9910	0.9300	1.0700	0.9415	1.0406	LD	7	Lanexa
314189	6PAPERMIL	230.0	345	354	0.8788	1.0010	0.9300	1.0700	0.9509	1.0510	LD	7	Lanexa
314190	6WESTMOR	230.0	345	354	0.9241	0.9887	0.9300	1.0700	0.9392	1.0381	LD	7	Lanexa
314191	3WHITE S	115.0	345	354	0.9127	0.9927	0.9300	1.0700	0.9430	1.0423	LD	7	Lanexa
314243	3PROV 92	115.0	345	355	0.9197	0.9921	0.9300	1.0700	0.9425	1.0417	LD	7	Lanexa
314296	6PENNINGMAN	230.0	345	356	0.9482	1.0006	0.9300	1.0700	0.9506	1.0506	D	7	Lanexa
314375	6CORRGTN	230.0	345	354	0.8785	1.0018	0.9300	1.0700	0.9517	1.0519	LD	7	Lanexa
314377	3DOW 34	115.0	345	356	0.9254	0.9863	0.9300	1.0700	0.9370	1.0356	LD	7	Lanexa
314378	3FTEUS34	115.0	345	356	0.9286	0.9838	0.9300	1.0700	0.9346	1.0330	LD	7	Lanexa
314379	3FTEUS58	115.0	345	356	0.9197	0.9703	0.9300	1.0700	0.9217	1.0188	LD	7	Lanexa
314384	3KINGS M	115.0	345	356	0.9085	0.9663	0.9300	1.0700	0.9180	1.0146	LD	7	Lanexa
314385	3HARMO 1	115.0	345	354	0.9139	0.9972	0.9300	1.0700	0.9473	1.0470	LD	7	Lanexa
314386	6KINGS M	230.0	345	356	0.9497	1.0015	0.9300	1.0700	0.9515	1.0516	D	7	Lanexa
314389	3LEBAN58	115.0	345	356	0.9067	0.9928	0.9300	1.0700	0.9432	1.0424	LD	7	Lanexa
314391	6LIGHT/09	230.0	345	356	0.9152	0.9679	0.9300	1.0700	0.9195	1.0163	LD	7	Lanexa
314395	3HARMO 2	115.0	345	356	0.9444	0.9990	0.9300	1.0700	0.9490	1.0489	D	7	Lanexa
314396	3NEWS58	115.0	345	354	0.9137	0.9970	0.9300	1.0700	0.9471	1.0468	LD	7	Lanexa
				356	0.9043	0.9814	0.9300	1.0700	0.9323	1.0305	LD	7	Lanexa

Bus #	Bus Name	KV	Area	Zone	ContVol t	BaseVol t	LowLim t	Upplim t	VoltDro p	VoltRis e	Viol	Ncon	Contingency Description
314400	3LANCA 1	115.0	345	354	0.9153	0.9940	0.9300	1.0700	0.9443	1.0437	LD	7	Lanexa
314411	3TOANO58	115.0	345	356	0.9040	0.9799	0.9300	1.0700	0.9309	1.0289	LD	7	Lanexa
314415	6WALR209	230.0	345	356	0.9453	0.9988	0.9300	1.0700	0.9489	1.0488	D	7	Lanexa
314424	3YNWS 58	115.0	345	356	0.9135	0.9673	0.9300	1.0700	0.9190	1.0157	LD	7	Lanexa
314384	3KINGS M	115.0	345	356	0.9283	0.9663	0.9300	1.0700	0.9180	1.0146	L	8	Lanexa115
314396	3NEWS58	115.0	345	356	0.9192	0.9814	0.9300	1.0700	0.9323	1.0305	LD	8	Lanexa115
314411	3TOANO58	115.0	345	356	0.9192	0.9799	0.9300	1.0700	0.9309	1.0289	LD	8	Lanexa115
314180	6HAYES	230.0	345	354	0.9434	1.0083	0.9300	1.0700	0.9579	1.0587	D	9	Yorktown
314402	6PENINSL	230.0	345	356	0.9505	1.0006	0.9300	1.0700	0.9505	1.0506	D	9	Yorktown
314409	6TABB	230.0	345	356	0.9490	1.0020	0.9300	1.0700	0.9519	1.0521	D	9	Yorktown
314379	3FEUS58	115.0	345	356	0.9288	0.9703	0.9300	1.0700	0.9217	1.0188	L	10	Yorktown115
314382	3GRAFT58	115.0	345	356	0.9289	0.9765	0.9300	1.0700	0.9277	1.0253	L	10	Yorktown115
314389	3LEBAN58	115.0	345	356	0.9288	0.9679	0.9300	1.0700	0.9195	1.0163	L	10	Yorktown115
314424	3YNWS 58	115.0	345	356	0.9295	0.9673	0.9300	1.0700	0.9190	1.0157	L	10	Yorktown115
313818	6BENCHRCH	230.0	345	360	0.9421	1.0197	0.9300	1.0700	0.9687	1.0707	D	11	Chuckatuk
314398	6NP NEWS	230.0	345	356	0.9439	1.0072	0.9300	1.0700	0.9569	1.0576	D	11	Chuckatuk
314399	6PMBROK	230.0	345	356	0.9426	1.0033	0.9300	1.0700	0.9531	1.0535	D	11	Chuckatuk
314402	6PENINSL	230.0	345	356	0.9479	1.0006	0.9300	1.0700	0.9505	1.0506	D	11	Chuckatuk
314407	6SHELBNK	230.0	345	356	0.9414	0.9991	0.9300	1.0700	0.9492	1.0491	D	11	Chuckatuk
314442	6NP NE 1	230.0	345	356	0.9458	1.0093	0.9300	1.0700	0.9588	1.0597	D	11	Chuckatuk