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; Bosie Bence Cloverdale Section #1
;
;No. Circuits No. Phases Length Frequency Gnd. R. No. Bundles
1 3 3.20000E+00 6.00000E+01 1.00000E+02 1
;
;
;P NB Bundle Rad Resistance Diameter GMR Heigth Sag Horz. X
A 1 1.00000E+00 7.59000E-02 1.34500E+00 4.45000E-02 5.50000E+01 0.00000E+00 1.00000E-03
B 1 1.00000E+00 7.59000E-02 1.34500E+00 4.45000E-02 4.25000E+01 0.00000E+00 0.00000E+00
C 1 1.00000E+00 7.59000E-02 1.34500E+00 4.45000E-02 3.00000E+01 0.00000E+00 -1.00000E-03
S1 0 1.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
S2 0 1.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
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Circuit 1 PC-EMTP line parameters for total line length

Circuit Average Self and Mutual R-L-C, XL and XC

Rs= 5.38205E-01 Ls= 1.14045E-02 Cs= 4.32989E-08 XLs= 4.29940E+00 XCs= 6.12621E+04
Rm= 2.95306E-01 Lm= 5.35954E-03 Cm=-8.14337E-09 XLm= 2.02050E+00 Xcm=-3.25735E+05

Sequence Impedance - Distributed Line Parameter Model

R zero = 1.12882E+00 L zero = 2.21236E-02 C zero = 2.70121E-08 XL zero = 8.34040E+00 XC zero = 9.81996E+04
R pos = 2.42899E-01 L pos = 6.04499E-03 C pos = 5.14422E-08 XL pos = 2.27891E+00 XC pos = 5.15643E+04
R neg = R pos, L Neg = L pos, and C neg = C pos

Model Surge Impedance - Distributed Line Parameter Model

Z0= 9.09116E+02 at -3.85388E+00 deg. Travel speed = 1.30901E+05 miles/sec
Z1= 3.43767E+02 at -3.04197E+00 deg. Travel speed = 1.81465E+05 miles/sec

Circuit 1 Z11 matrix, R in ohms, L in henries

```
1 R 5.35522E-01 2.93962E-01 2.95300E-01
1 L 1.14124E-02 5.60144E-03 4.88359E-03

2 R 2.93962E-01 5.38180E-01 2.96656E-01
2 L 5.60144E-03 1.14045E-02 5.59358E-03

3 R 2.95300E-01 2.96656E-01 5.40913E-01
3 L 4.88359E-03 5.59358E-03 1.13966E-02
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Circuit 1 C11 Capacitance Matrix in farads.

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1 C 4.13737E-08 -1.04962E-08 -4.61314E-09
2 C -1.04962E-08 4.42963E-08 -9.32076E-09
3 C -4.61314E-09 -9.32076E-09 4.42266E-08
```

Circuit 1 Pi-Section - Mutually Coupled Line Model Format (Absolute)

Type	Ns	Nd	R	L	C	Sw	Nc	Limit	ID
3	NAs	NAd	5.35522E-01	1.14124E-02	4.13737E-08	0	/	0.000E+00	0
			2.93962E-01	5.60144E-03	-1.04962E-08				
			2.95300E-01	4.88359E-03	-4.61314E-09				
2	NBs	NBd	5.38180E-01	1.14045E-02	4.42963E-08	0	/	0.000E+00	0
			2.96656E-01	5.59358E-03	-9.32076E-09				
1	NCs	NCd	5.40913E-01	1.13966E-02	4.42266E-08	0	/	0.000E+00	0

Circuit 1 Pi-Section - Mutually Coupled Line Model Format (OHMS)

Type	Ns	Nd	R	jXL	-jXC	Sw	Nc	Limit	ID
J 3	NAs	NAd	5.35522E-01	4.30237E+00	6.41128E+04	0	/	0.000E+00	0
			2.93962E-01	2.11169E+00	-2.52718E+05				
			2.95300E-01	1.84107E+00	-5.75006E+05				
J 2	NBs	NBd	5.38180E-01	4.29941E+00	5.98827E+04	0	/	0.000E+00	0
			2.96656E-01	2.10873E+00	-2.84589E+05				
J 1	NCs	NCd	5.40913E-01	4.29643E+00	5.99770E+04	0	/	0.000E+00	0

NOTE: The <J> in the first column flags the PC-EMTP that the jXL and -jXC fields are in ohms at the system pre-fault frequency.

Circuit 1 Distributed Parameter - Mutually Coupled Line Model Format (Absolute)

Type	Ns	Nd	R	L	C	Sw	Nc	Limit	ID
3	NAs	NAd	1.12882E+00	2.21236E-02	2.70121E-08	0	/	0.000E+00	0
2	NBs	NBd	2.42899E-01	6.04499E-03	5.14422E-08	0	/	0.000E+00	0
1	NCs	NCd				0	/	0.000E+00	0

Circuit 1 Distributed Parameter - Mutually Coupled Line Model Format (OHMS)

Type	Ns	Nd	R	Z	Tau	Sw	Nc	Limit	ID
J 3	NAs	NAd	1.12882E+00	9.09116E+02	2.44460E+01	0	/	0.000E+00	0
J 2	NBs	NBd	2.42899E-01	3.43767E+02	1.76343E+01	0	/	0.000E+00	0
J 1	NCs	NCd				0	/	0.000E+00	0

NOTE: The <J> in the first column flags the PC-EMTP that the L field is Z0 or Z1 ohms and the C field is Tau0 or Taul microseconds.