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Client	Applied High Voltage	Project No.	AHV-15-002					
Project Title	Cassadaga Wind Farm EMF							
Calculation Title	Electric and Magnetic Field Study							
AHV PO:	19018-002				Page	25	of	77

APPENDIX A – CALCULATION OUTPUT DATA

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

ROW CALC 1 - TYPICAL PROPOSED 115KV STRUCTURE WITH EXISTING 115KV & 34KV

Electric Field

---- List of Conductors ----

ID#	Diameter (cm)	Phase Voltage (kV)	Horizontal Angle (degree)	Height above Ground (m)	Coordinate X(m)
1A	2.81	66.47	0.0	19.812	2.134
1B	2.81	66.47	-120.0	18.288	-2.134
1C	2.81	66.47	120.0	16.764	2.134
1	0.98	0.00	0.0	21.336	0.0
2B	1.00	19.94	-120.0	13.716	0.0
2C	1.00	19.94	120.0	13.716	-1.064
3A	2.81	66.47	0.0	22.86	-9.144
3B	2.81	66.47	-120.0	19.812	-8.53
3C	2.81	66.47	120.0	16.764	-9.144
3	0.98	0.00	0.0	24.384	-8.53
4	0.98	0.00	0.0	24.384	-15.8496
2	1.00	19.94	0.0	13.716	1.064
5A	2.81	38.38	0.0	16.764	-15.24
5B	2.81	38.38	-120.0	19.812	-15.8496
5C	2.81	38.38	120.0	22.86	-15.24

Electric Field and Space Potential are calculated at 200 points uniformly distributed along a straight line that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

---- Results ----

Point	X(m)	H(m)	E(V/m)	Vsp(V)
0	-152.40	1.00	2.92	2.92
1	-150.88	1.00	2.97	2.97
2	-149.35	1.00	3.02	3.02
3	-147.83	1.00	3.07	3.07
4	-146.30	1.00	3.13	3.13
5	-144.78	1.00	3.19	3.19
6	-143.26	1.00	3.24	3.24
7	-141.73	1.00	3.30	3.30
8	-140.21	1.00	3.37	3.37
9	-138.68	1.00	3.43	3.43
10	-137.16	1.00	3.49	3.49
11	-135.64	1.00	3.56	3.56
12	-134.11	1.00	3.63	3.63
13	-132.59	1.00	3.70	3.70
14	-131.06	1.00	3.77	3.77
15	-129.54	1.00	3.85	3.85
16	-128.02	1.00	3.92	3.92
17	-126.49	1.00	4.00	4.00
18	-124.97	1.00	4.08	4.08
19	-123.44	1.00	4.17	4.17
20	-121.92	1.00	4.25	4.25
21	-120.40	1.00	4.34	4.34
22	-118.87	1.00	4.43	4.43
23	-117.35	1.00	4.53	4.53
24	-115.82	1.00	4.62	4.62
25	-114.30	1.00	4.72	4.72
26	-112.78	1.00	4.83	4.83
27	-111.25	1.00	4.93	4.93
28	-109.73	1.00	5.04	5.04
29	-108.20	1.00	5.15	5.15
30	-106.68	1.00	5.27	5.27
31	-105.16	1.00	5.39	5.39
32	-103.63	1.00	5.51	5.51
33	-102.11	1.00	5.64	5.64

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

34	-100.58	1.00	5.77	5.77
35	-99.06	1.00	5.90	5.90
36	-97.54	1.00	6.04	6.04
37	-96.01	1.00	6.19	6.19
38	-94.49	1.00	6.34	6.34
39	-92.96	1.00	6.49	6.49
40	-91.44	1.00	6.65	6.65
41	-89.92	1.00	6.81	6.81
42	-88.39	1.00	6.98	6.98
43	-86.87	1.00	7.15	7.15
44	-85.34	1.00	7.33	7.33
45	-83.82	1.00	7.52	7.52
46	-82.30	1.00	7.71	7.71
47	-80.77	1.00	7.91	7.91
48	-79.25	1.00	8.12	8.12
49	-77.72	1.00	8.33	8.33
50	-76.20	1.00	8.55	8.55
51	-74.68	1.00	8.78	8.78
52	-73.15	1.00	9.02	9.02
53	-71.63	1.00	9.26	9.26
54	-70.10	1.00	9.52	9.52
55	-68.58	1.00	9.78	9.78
56	-67.06	1.00	10.06	10.06
57	-65.53	1.00	10.35	10.35
58	-64.01	1.00	10.65	10.65
59	-62.48	1.00	10.97	10.97
60	-60.96	1.00	11.30	11.30
61	-59.44	1.00	11.66	11.66
62	-57.91	1.00	12.04	12.04
63	-56.39	1.00	12.44	12.44
64	-54.86	1.00	12.88	12.88
65	-53.34	1.00	13.35	13.35
66	-51.82	1.00	13.88	13.88
67	-50.29	1.00	14.46	14.46
68	-48.77	1.00	15.11	15.11
69	-47.24	1.00	15.84	15.84
70	-45.72	1.00	16.68	16.68
71	-44.20	1.00	17.64	17.65
72	-42.67	1.00	18.76	18.77
73	-41.15	1.00	20.05	20.06
74	-39.62	1.00	21.56	21.56
75	-38.10	1.00	23.30	23.30
76	-36.58	1.00	25.30	25.30
77	-35.05	1.00	27.58	27.57
78	-33.53	1.00	30.13	30.11
79	-32.00	1.00	32.91	32.87
80	-30.48	1.00	35.84	35.76
81	-28.96	1.00	38.74	38.61
82	-27.43	1.00	41.35	41.13
83	-25.91	1.00	43.28	42.93
84	-24.38	1.00	44.13	43.54
85	-22.86	1.00	43.66	42.68
86	-21.34	1.00	42.59	40.96
87	-19.81	1.00	44.02	41.49
88	-18.29	1.00	53.71	50.52
89	-16.76	1.00	75.17	71.85
90	-15.24	1.00	107.01	103.80
91	-13.72	1.00	145.64	142.62
92	-12.19	1.00	186.83	184.04
93	-10.67	1.00	226.02	223.50
94	-9.14	1.00	258.99	256.77
95	-7.62	1.00	282.51	280.59
96	-6.10	1.00	294.87	293.21
97	-4.57	1.00	296.16	294.69
98	-3.05	1.00	288.27	286.91
99	-1.52	1.00	274.70	273.34
100	0.00	1.00	259.80	258.38
101	1.52	1.00	247.50	245.98
102	3.05	1.00	239.57	237.99
103	4.57	1.00	235.20	233.61

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104	6.10	1.00	232.00	230.51
105	7.62	1.00	227.78	226.45
106	9.14	1.00	221.33	220.20
107	10.67	1.00	212.51	211.58
108	12.19	1.00	201.79	201.04
109	13.72	1.00	189.87	189.27
110	15.24	1.00	177.41	176.94
111	16.76	1.00	164.95	164.58
112	18.29	1.00	152.86	152.58
113	19.81	1.00	141.38	141.16
114	21.34	1.00	130.63	130.45
115	22.86	1.00	120.66	120.53
116	24.38	1.00	111.49	111.39
117	25.91	1.00	103.09	103.01
118	27.43	1.00	95.41	95.35
119	28.96	1.00	88.41	88.36
120	30.48	1.00	82.03	81.99
121	32.00	1.00	76.22	76.19
122	33.53	1.00	70.92	70.90
123	35.05	1.00	66.09	66.07
124	36.58	1.00	61.69	61.67
125	38.10	1.00	57.66	57.65
126	39.62	1.00	53.98	53.97
127	41.15	1.00	50.61	50.60
128	42.67	1.00	47.52	47.51
129	44.20	1.00	44.68	44.68
130	45.72	1.00	42.07	42.07
131	47.24	1.00	39.67	39.66
132	48.77	1.00	37.45	37.44
133	50.29	1.00	35.40	35.40
134	51.82	1.00	33.50	33.50
135	53.34	1.00	31.75	31.75
136	54.86	1.00	30.12	30.12
137	56.39	1.00	28.61	28.60
138	57.91	1.00	27.20	27.20
139	59.44	1.00	25.89	25.89
140	60.96	1.00	24.66	24.66
141	62.48	1.00	23.52	23.52
142	64.01	1.00	22.45	22.45
143	65.53	1.00	21.45	21.45
144	67.06	1.00	20.51	20.51
145	68.58	1.00	19.63	19.63
146	70.10	1.00	18.81	18.81
147	71.63	1.00	18.03	18.03
148	73.15	1.00	17.30	17.30
149	74.68	1.00	16.61	16.61
150	76.20	1.00	15.96	15.96
151	77.72	1.00	15.34	15.34
152	79.25	1.00	14.76	14.76
153	80.77	1.00	14.21	14.21
154	82.30	1.00	13.69	13.69
155	83.82	1.00	13.20	13.20
156	85.34	1.00	12.73	12.73
157	86.87	1.00	12.29	12.29
158	88.39	1.00	11.87	11.87
159	89.92	1.00	11.47	11.47
160	91.44	1.00	11.08	11.08
161	92.96	1.00	10.72	10.72
162	94.49	1.00	10.38	10.37
163	96.01	1.00	10.05	10.05
164	97.54	1.00	9.73	9.73
165	99.06	1.00	9.43	9.43
166	100.58	1.00	9.14	9.14
167	102.11	1.00	8.87	8.87
168	103.63	1.00	8.61	8.61
169	105.16	1.00	8.35	8.35
170	106.68	1.00	8.11	8.11
171	108.20	1.00	7.88	7.88
172	109.73	1.00	7.66	7.66
173	111.25	1.00	7.45	7.45

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174	112.78	1.00	7.25	7.25
175	114.30	1.00	7.05	7.05
176	115.82	1.00	6.86	6.86
177	117.35	1.00	6.68	6.68
178	118.87	1.00	6.51	6.51
179	120.40	1.00	6.34	6.34
180	121.92	1.00	6.18	6.18
181	123.44	1.00	6.02	6.02
182	124.97	1.00	5.88	5.88
183	126.49	1.00	5.73	5.73
184	128.02	1.00	5.59	5.59
185	129.54	1.00	5.46	5.46
186	131.06	1.00	5.33	5.33
187	132.59	1.00	5.21	5.21
188	134.11	1.00	5.08	5.08
189	135.64	1.00	4.97	4.97
190	137.16	1.00	4.86	4.86
191	138.68	1.00	4.75	4.75
192	140.21	1.00	4.64	4.64
193	141.73	1.00	4.54	4.54
194	143.26	1.00	4.44	4.44
195	144.78	1.00	4.35	4.35
196	146.30	1.00	4.25	4.25
197	147.83	1.00	4.16	4.16
198	149.35	1.00	4.08	4.08
199	150.88	1.00	3.99	3.99
200	152.40	1.00	3.91	3.91

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	Output Data

**ROW CALC 1 - TYPICAL PROPOSED 115KV STRUCTURE WITH EXISTING 115KV & 34KV
Magnetic Field**

---- List of Conductors ----

Conductor ID#	Phase (A)	Horizontal Angle (degree)	Height above Ground (m)	Coordinate X(m)	Coordinate Y(m)
1	665.00	0.0	21.34	2.13	19.81
2	665.00	-120	21.34	-2.13	18.29
3	665.00	120.0	21.34	2.13	16.76
4	0.00	0.0	13.72	0.00	21.34
5	528.50	0.0	13.72	1.06	13.72
6	528.50	-120	13.72	0.00	13.72
7	528.50	120.0	13.72	-1.06	13.72
8	665.00	0.0	22.86	-9.14	22.86
9	665.00	-120	22.86	-8.53	19.81
10	665.00	120.0	22.86	-9.14	16.76
11	665.00	0.0	16.76	-15.24	16.76
12	665.00	-120	16.76	-15.85	19.81
13	665.00	120.0	16.76	-15.24	22.86
14	0.00	0.0	24.38	-8.53	24.38
15	0.00	0.0	24.38	-15.85	24.38

Magnetic Field are calculated at 200 points uniformly distributed along a straight line that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

Results -----

--- Magnetic Field ---					
Calculation Point(#)	X(m)	H(m)	Bmin (mG)	Bmax (mG)	Bresultant (mG)
0	-152.40	1.00	0.11	0.27	0.29
1	-150.88	1.00	0.12	0.27	0.30
2	-149.35	1.00	0.12	0.28	0.30
3	-147.83	1.00	0.12	0.28	0.31
4	-146.30	1.00	0.12	0.29	0.32
5	-144.78	1.00	0.13	0.30	0.32
6	-143.26	1.00	0.13	0.30	0.33
7	-141.73	1.00	0.13	0.31	0.34
8	-140.21	1.00	0.13	0.32	0.34
9	-138.68	1.00	0.13	0.32	0.35
10	-137.16	1.00	0.14	0.33	0.36
11	-135.64	1.00	0.14	0.34	0.37
12	-134.11	1.00	0.14	0.35	0.37
13	-132.59	1.00	0.15	0.35	0.38
14	-131.06	1.00	0.15	0.36	0.39
15	-129.54	1.00	0.15	0.37	0.40
16	-128.02	1.00	0.15	0.38	0.41
17	-126.49	1.00	0.16	0.39	0.42
18	-124.97	1.00	0.16	0.40	0.43
19	-123.44	1.00	0.16	0.41	0.44
20	-121.92	1.00	0.17	0.42	0.45
21	-120.40	1.00	0.17	0.43	0.46
22	-118.87	1.00	0.17	0.44	0.47
23	-117.35	1.00	0.18	0.45	0.49
24	-115.82	1.00	0.18	0.46	0.50
25	-114.30	1.00	0.19	0.48	0.51
26	-112.78	1.00	0.19	0.49	0.52
27	-111.25	1.00	0.19	0.50	0.54
28	-109.73	1.00	0.20	0.52	0.55
29	-108.20	1.00	0.20	0.53	0.57
30	-106.68	1.00	0.21	0.55	0.58
31	-105.16	1.00	0.21	0.56	0.60
32	-103.63	1.00	0.22	0.58	0.62

Project Title	Cassadaga Wind Farm EMF
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	Output Data

33	-102.11	1.00	0.22	0.60	0.64
34	-100.58	1.00	0.22	0.61	0.65
35	-99.06	1.00	0.23	0.63	0.67
36	-97.54	1.00	0.23	0.65	0.69
37	-96.01	1.00	0.24	0.67	0.71
38	-94.49	1.00	0.25	0.69	0.74
39	-92.96	1.00	0.25	0.72	0.76
40	-91.44	1.00	0.26	0.74	0.78
41	-89.92	1.00	0.26	0.77	0.81
42	-88.39	1.00	0.27	0.79	0.84
43	-86.87	1.00	0.28	0.82	0.87
44	-85.34	1.00	0.28	0.85	0.90
45	-83.82	1.00	0.29	0.88	0.93
46	-82.30	1.00	0.29	0.91	0.96
47	-80.77	1.00	0.30	0.95	0.99
48	-79.25	1.00	0.31	0.98	1.03
49	-77.72	1.00	0.32	1.02	1.07
50	-76.20	1.00	0.32	1.06	1.11
51	-74.68	1.00	0.33	1.11	1.15
52	-73.15	1.00	0.34	1.15	1.20
53	-71.63	1.00	0.34	1.20	1.25
54	-70.10	1.00	0.35	1.25	1.30
55	-68.58	1.00	0.36	1.31	1.35
56	-67.06	1.00	0.37	1.36	1.41
57	-65.53	1.00	0.37	1.43	1.48
58	-64.01	1.00	0.38	1.49	1.54
59	-62.48	1.00	0.39	1.57	1.61
60	-60.96	1.00	0.39	1.64	1.69
61	-59.44	1.00	0.40	1.73	1.77
62	-57.91	1.00	0.40	1.82	1.86
63	-56.39	1.00	0.41	1.91	1.96
64	-54.86	1.00	0.41	2.02	2.06
65	-53.34	1.00	0.41	2.13	2.17
66	-51.82	1.00	0.42	2.26	2.29
67	-50.29	1.00	0.42	2.39	2.43
68	-48.77	1.00	0.42	2.54	2.57
69	-47.24	1.00	0.42	2.70	2.73
70	-45.72	1.00	0.41	2.88	2.91
71	-44.20	1.00	0.41	3.07	3.10
72	-42.67	1.00	0.41	3.29	3.32
73	-41.15	1.00	0.41	3.54	3.56
74	-39.62	1.00	0.41	3.81	3.83
75	-38.10	1.00	0.41	4.12	4.14
76	-36.58	1.00	0.42	4.47	4.49
77	-35.05	1.00	0.44	4.86	4.88
78	-33.53	1.00	0.47	5.32	5.34
79	-32.00	1.00	0.53	5.84	5.86
80	-30.48	1.00	0.62	6.44	6.47
81	-28.96	1.00	0.75	7.12	7.16
82	-27.43	1.00	0.94	7.91	7.97
83	-25.91	1.00	1.20	8.82	8.90
84	-24.38	1.00	1.55	9.85	9.97
85	-22.86	1.00	2.01	11.01	11.19
86	-21.34	1.00	2.59	12.29	12.56
87	-19.81	1.00	3.30	13.68	14.07
88	-18.29	1.00	4.13	15.15	15.70
89	-16.76	1.00	5.06	16.65	17.40
90	-15.24	1.00	6.07	18.14	19.13
91	-13.72	1.00	7.13	19.56	20.82
92	-12.19	1.00	8.18	20.87	22.42
93	-10.67	1.00	9.19	22.02	23.86
94	-9.14	1.00	10.12	23.00	25.12
95	-7.62	1.00	10.94	23.76	26.16
96	-6.10	1.00	11.62	24.30	26.93
97	-4.57	1.00	12.14	24.58	27.41
98	-3.05	1.00	12.47	24.56	27.54
99	-1.52	1.00	12.61	24.21	27.29
100	0.00	1.00	12.56	23.52	26.67
101	1.52	1.00	12.35	22.54	25.70
102	3.05	1.00	12.02	21.32	24.47

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103	4.57	1.00	11.59	19.94	23.06
104	6.10	1.00	11.08	18.50	21.56
105	7.62	1.00	10.51	17.05	20.03
106	9.14	1.00	9.91	15.65	18.52
107	10.67	1.00	9.28	14.32	17.06
108	12.19	1.00	8.65	13.08	15.68
109	13.72	1.00	8.02	11.93	14.38
110	15.24	1.00	7.41	10.89	13.17
111	16.76	1.00	6.82	9.94	12.06
112	18.29	1.00	6.28	9.08	11.04
113	19.81	1.00	5.77	8.31	10.12
114	21.34	1.00	5.31	7.61	9.28
115	22.86	1.00	4.88	6.99	8.52
116	24.38	1.00	4.49	6.43	7.84
117	25.91	1.00	4.14	5.92	7.23
118	27.43	1.00	3.82	5.47	6.67
119	28.96	1.00	3.53	5.06	6.17
120	30.48	1.00	3.27	4.69	5.72
121	32.00	1.00	3.03	4.36	5.31
122	33.53	1.00	2.81	4.05	4.94
123	35.05	1.00	2.62	3.78	4.60
124	36.58	1.00	2.44	3.53	4.29
125	38.10	1.00	2.28	3.31	4.01
126	39.62	1.00	2.13	3.10	3.76
127	41.15	1.00	1.99	2.91	3.53
128	42.67	1.00	1.87	2.74	3.32
129	44.20	1.00	1.76	2.58	3.12
130	45.72	1.00	1.65	2.44	2.94
131	47.24	1.00	1.56	2.30	2.78
132	48.77	1.00	1.47	2.18	2.63
133	50.29	1.00	1.39	2.06	2.49
134	51.82	1.00	1.31	1.96	2.36
135	53.34	1.00	1.24	1.86	2.24
136	54.86	1.00	1.18	1.77	2.13
137	56.39	1.00	1.12	1.68	2.02
138	57.91	1.00	1.06	1.60	1.93
139	59.44	1.00	1.01	1.53	1.84
140	60.96	1.00	0.96	1.46	1.75
141	62.48	1.00	0.92	1.40	1.67
142	64.01	1.00	0.88	1.34	1.60
143	65.53	1.00	0.84	1.28	1.53
144	67.06	1.00	0.80	1.23	1.47
145	68.58	1.00	0.77	1.18	1.41
146	70.10	1.00	0.73	1.13	1.35
147	71.63	1.00	0.70	1.09	1.29
148	73.15	1.00	0.67	1.04	1.24
149	74.68	1.00	0.65	1.01	1.20
150	76.20	1.00	0.62	0.97	1.15
151	77.72	1.00	0.60	0.93	1.11
152	79.25	1.00	0.58	0.90	1.07
153	80.77	1.00	0.55	0.87	1.03
154	82.30	1.00	0.53	0.84	0.99
155	83.82	1.00	0.51	0.81	0.96
156	85.34	1.00	0.50	0.78	0.93
157	86.87	1.00	0.48	0.76	0.90
158	88.39	1.00	0.46	0.73	0.87
159	89.92	1.00	0.45	0.71	0.84
160	91.44	1.00	0.43	0.69	0.81
161	92.96	1.00	0.42	0.66	0.79
162	94.49	1.00	0.40	0.64	0.76
163	96.01	1.00	0.39	0.63	0.74
164	97.54	1.00	0.38	0.61	0.72
165	99.06	1.00	0.37	0.59	0.69
166	100.58	1.00	0.36	0.57	0.67
167	102.11	1.00	0.35	0.56	0.65
168	103.63	1.00	0.34	0.54	0.64
169	105.16	1.00	0.33	0.53	0.62
170	106.68	1.00	0.32	0.51	0.60
171	108.20	1.00	0.31	0.50	0.58
172	109.73	1.00	0.30	0.48	0.57

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

173	111.25	1.00	0.29	0.47	0.55
174	112.78	1.00	0.28	0.46	0.54
175	114.30	1.00	0.27	0.45	0.52
176	115.82	1.00	0.27	0.44	0.51
177	117.35	1.00	0.26	0.42	0.50
178	118.87	1.00	0.25	0.41	0.49
179	120.40	1.00	0.25	0.40	0.47
180	121.92	1.00	0.24	0.39	0.46
181	123.44	1.00	0.23	0.39	0.45
182	124.97	1.00	0.23	0.38	0.44
183	126.49	1.00	0.22	0.37	0.43
184	128.02	1.00	0.22	0.36	0.42
185	129.54	1.00	0.21	0.35	0.41
186	131.06	1.00	0.21	0.34	0.40
187	132.59	1.00	0.20	0.34	0.39
188	134.11	1.00	0.20	0.33	0.38
189	135.64	1.00	0.19	0.32	0.37
190	137.16	1.00	0.19	0.31	0.37
191	138.68	1.00	0.19	0.31	0.36
192	140.21	1.00	0.18	0.30	0.35
193	141.73	1.00	0.18	0.29	0.34
194	143.26	1.00	0.17	0.29	0.34
195	144.78	1.00	0.17	0.28	0.33
196	146.30	1.00	0.17	0.28	0.32
197	147.83	1.00	0.16	0.27	0.32
198	149.35	1.00	0.16	0.27	0.31
199	150.88	1.00	0.16	0.26	0.30
200	152.40	1.00	0.15	0.26	0.30

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

**ROW CALC 2 - Typical Proposed 115kV Structure with Underbuilt Distribution
Electric Field**

---- List of Conductors ----

ID#	Diameter (cm)	Phase Voltage (kV)	Horizontal Angle (degree)	Height above Coordinate X(m)	Height above Ground H(m)
1A	2.81	66.40	0.0	2.134	19.812
1B	2.81	66.40	-120.0	-2.134	18.288
1C	2.81	66.40	120.0	2.134	16.764
2A	1.00	19.92	0.0	-1.064	13.716
2B	1.00	19.92	-120.0	0.0	13.716
2C	1.00	19.92	120.0	1.064	13.716

Electric Field and Space Potential are calculated at 200 points uniformly distributed along a straightline that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

---- Results ----

Point	X(m)	H(m)	E(V/m)	Vsp(V)
0	-152.40	1.00	3.32	3.32
1	-150.88	1.00	3.39	3.39
2	-149.35	1.00	3.47	3.47
3	-147.83	1.00	3.54	3.54
4	-146.30	1.00	3.62	3.62
5	-144.78	1.00	3.69	3.69
6	-143.26	1.00	3.78	3.78
7	-141.73	1.00	3.86	3.86
8	-140.21	1.00	3.95	3.95
9	-138.68	1.00	4.04	4.04
10	-137.16	1.00	4.13	4.13
11	-135.64	1.00	4.22	4.22
12	-134.11	1.00	4.32	4.32
13	-132.59	1.00	4.43	4.43
14	-131.06	1.00	4.53	4.53
15	-129.54	1.00	4.64	4.64
16	-128.02	1.00	4.76	4.76
17	-126.49	1.00	4.88	4.88
18	-124.97	1.00	5.00	5.00
19	-123.44	1.00	5.13	5.13
20	-121.92	1.00	5.26	5.26
21	-120.40	1.00	5.40	5.40
22	-118.87	1.00	5.55	5.55
23	-117.35	1.00	5.70	5.70
24	-115.82	1.00	5.85	5.85
25	-114.30	1.00	6.02	6.02
26	-112.78	1.00	6.18	6.18
27	-111.25	1.00	6.36	6.36
28	-109.73	1.00	6.55	6.55
29	-108.20	1.00	6.74	6.74
30	-106.68	1.00	6.94	6.94
31	-105.16	1.00	7.15	7.15
32	-103.63	1.00	7.37	7.37
33	-102.11	1.00	7.60	7.60
34	-100.58	1.00	7.84	7.84
35	-99.06	1.00	8.09	8.09
36	-97.54	1.00	8.36	8.36
37	-96.01	1.00	8.64	8.64
38	-94.49	1.00	8.93	8.93
39	-92.96	1.00	9.23	9.23
40	-91.44	1.00	9.56	9.56
41	-89.92	1.00	9.90	9.90

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

42	-88.39	1.00	10.26	10.26
43	-86.87	1.00	10.63	10.63
44	-85.34	1.00	11.03	11.03
45	-83.82	1.00	11.46	11.45
46	-82.30	1.00	11.90	11.90
47	-80.77	1.00	12.37	12.37
48	-79.25	1.00	12.87	12.87
49	-77.72	1.00	13.41	13.41
50	-76.20	1.00	13.97	13.97
51	-74.68	1.00	14.57	14.57
52	-73.15	1.00	15.21	15.21
53	-71.63	1.00	15.89	15.89
54	-70.10	1.00	16.62	16.62
55	-68.58	1.00	17.39	17.39
56	-67.06	1.00	18.22	18.22
57	-65.53	1.00	19.12	19.11
58	-64.01	1.00	20.07	20.07
59	-62.48	1.00	21.10	21.10
60	-60.96	1.00	22.20	22.20
61	-59.44	1.00	23.39	23.39
62	-57.91	1.00	24.68	24.68
63	-56.39	1.00	26.07	26.07
64	-54.86	1.00	27.57	27.57
65	-53.34	1.00	29.21	29.20
66	-51.82	1.00	30.98	30.98
67	-50.29	1.00	32.91	32.91
68	-48.77	1.00	35.02	35.02
69	-47.24	1.00	37.32	37.32
70	-45.72	1.00	39.84	39.83
71	-44.20	1.00	42.60	42.59
72	-42.67	1.00	45.63	45.62
73	-41.15	1.00	48.96	48.95
74	-39.62	1.00	52.63	52.61
75	-38.10	1.00	56.67	56.66
76	-36.58	1.00	61.13	61.12
77	-35.05	1.00	66.07	66.05
78	-33.53	1.00	71.52	71.49
79	-32.00	1.00	77.54	77.51
80	-30.48	1.00	84.19	84.16
81	-28.96	1.00	91.53	91.48
82	-27.43	1.00	99.59	99.53
83	-25.91	1.00	108.41	108.34
84	-24.38	1.00	118.00	117.91
85	-22.86	1.00	128.33	128.22
86	-21.34	1.00	139.32	139.17
87	-19.81	1.00	150.77	150.58
88	-18.29	1.00	162.39	162.15
89	-16.76	1.00	173.70	173.38
90	-15.24	1.00	184.02	183.60
91	-13.72	1.00	192.39	191.84
92	-12.19	1.00	197.60	196.88
93	-10.67	1.00	198.23	197.27
94	-9.14	1.00	192.75	191.45
95	-7.62	1.00	179.87	178.07
96	-6.10	1.00	159.04	156.51
97	-4.57	1.00	131.45	127.76
98	-3.05	1.00	102.02	96.47
99	-1.52	1.00	83.32	75.72
100	0.00	1.00	91.13	83.95
101	1.52	1.00	119.26	113.95
102	3.05	1.00	150.73	146.87
103	4.57	1.00	176.26	173.37
104	6.10	1.00	192.46	190.24
105	7.62	1.00	199.18	197.44
106	9.14	1.00	197.92	196.55
107	10.67	1.00	190.88	189.78
108	12.19	1.00	180.19	179.31
109	13.72	1.00	167.61	166.91
110	15.24	1.00	154.42	153.87
111	16.76	1.00	141.45	141.01

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

112	18.29	1.00	129.16	128.81
113	19.81	1.00	117.80	117.53
114	21.34	1.00	107.46	107.23
115	22.86	1.00	98.11	97.93
116	24.38	1.00	89.71	89.57
117	25.91	1.00	82.18	82.07
118	27.43	1.00	75.43	75.34
119	28.96	1.00	69.38	69.31
120	30.48	1.00	63.96	63.90
121	32.00	1.00	59.08	59.04
122	33.53	1.00	54.70	54.66
123	35.05	1.00	50.75	50.71
124	36.58	1.00	47.18	47.15
125	38.10	1.00	43.94	43.92
126	39.62	1.00	41.01	40.99
127	41.15	1.00	38.35	38.33
128	42.67	1.00	35.92	35.91
129	44.20	1.00	33.70	33.69
130	45.72	1.00	31.68	31.67
131	47.24	1.00	29.82	29.81
132	48.77	1.00	28.12	28.11
133	50.29	1.00	26.55	26.54
134	51.82	1.00	25.11	25.10
135	53.34	1.00	23.77	23.77
136	54.86	1.00	22.54	22.54
137	56.39	1.00	21.40	21.40
138	57.91	1.00	20.34	20.34
139	59.44	1.00	19.36	19.35
140	60.96	1.00	18.44	18.44
141	62.48	1.00	17.59	17.59
142	64.01	1.00	16.79	16.79
143	65.53	1.00	16.05	16.05
144	67.06	1.00	15.35	15.35
145	68.58	1.00	14.70	14.70
146	70.10	1.00	14.09	14.08
147	71.63	1.00	13.51	13.51
148	73.15	1.00	12.97	12.97
149	74.68	1.00	12.46	12.46
150	76.20	1.00	11.98	11.98
151	77.72	1.00	11.53	11.52
152	79.25	1.00	11.10	11.10
153	80.77	1.00	10.69	10.69
154	82.30	1.00	10.31	10.31
155	83.82	1.00	9.95	9.95
156	85.34	1.00	9.60	9.60
157	86.87	1.00	9.27	9.27
158	88.39	1.00	8.96	8.96
159	89.92	1.00	8.67	8.67
160	91.44	1.00	8.39	8.39
161	92.96	1.00	8.12	8.12
162	94.49	1.00	7.87	7.87
163	96.01	1.00	7.62	7.62
164	97.54	1.00	7.39	7.39
165	99.06	1.00	7.17	7.17
166	100.58	1.00	6.96	6.96
167	102.11	1.00	6.75	6.75
168	103.63	1.00	6.56	6.56
169	105.16	1.00	6.37	6.37
170	106.68	1.00	6.20	6.20
171	108.20	1.00	6.03	6.03
172	109.73	1.00	5.86	5.86
173	111.25	1.00	5.71	5.71
174	112.78	1.00	5.55	5.55
175	114.30	1.00	5.41	5.41
176	115.82	1.00	5.27	5.27
177	117.35	1.00	5.14	5.14
178	118.87	1.00	5.01	5.01
179	120.40	1.00	4.88	4.88
180	121.92	1.00	4.76	4.76
181	123.44	1.00	4.65	4.65

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

182	124.97	1.00	4.54	4.54
183	126.49	1.00	4.43	4.43
184	128.02	1.00	4.33	4.33
185	129.54	1.00	4.23	4.23
186	131.06	1.00	4.13	4.13
187	132.59	1.00	4.04	4.04
188	134.11	1.00	3.95	3.95
189	135.64	1.00	3.86	3.86
190	137.16	1.00	3.78	3.78
191	138.68	1.00	3.70	3.70
192	140.21	1.00	3.62	3.62
193	141.73	1.00	3.54	3.54
194	143.26	1.00	3.47	3.47
195	144.78	1.00	3.39	3.39
196	146.30	1.00	3.32	3.32
197	147.83	1.00	3.26	3.26
198	149.35	1.00	3.19	3.19
199	150.88	1.00	3.13	3.13
200	152.40	1.00	3.07	3.07

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

**ROW CALC 2 - Typical Proposed 115kV Structure with Underbuilt Distribution
Magnetic Field**

---- List of Conductors ----

Conductor ID#	Current (A)	Phase Angle (degree)	Horizontal Coordinate X(m)	Height above Ground H(m)
1	665.00	0.0	2.13	19.81
2	665.00	-120	-2.13	18.29
3	665.00	120.0	2.13	16.76
4	528.50	0.0	-1.06	13.72
5	528.50	-120	0.00	13.72
6	528.50	120.0	1.06	13.72

Magnetic Field are calculated at 200 points uniformly distributed along a straight line that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

Results -----

Calculation Point(#)	X(m)	H(m)	--- Magnetic Field ---		
			Bmin (mG)	Bmax (mG)	Bresultant (mG)
0	-152.40	1.00	0.13	0.26	0.29
1	-150.88	1.00	0.13	0.27	0.30
2	-149.35	1.00	0.13	0.27	0.30
3	-147.83	1.00	0.14	0.28	0.31
4	-146.30	1.00	0.14	0.28	0.32
5	-144.78	1.00	0.14	0.29	0.32
6	-143.26	1.00	0.15	0.29	0.33
7	-141.73	1.00	0.15	0.30	0.34
8	-140.21	1.00	0.15	0.31	0.34
9	-138.68	1.00	0.16	0.31	0.35
10	-137.16	1.00	0.16	0.32	0.36
11	-135.64	1.00	0.16	0.33	0.37
12	-134.11	1.00	0.17	0.34	0.37
13	-132.59	1.00	0.17	0.34	0.38
14	-131.06	1.00	0.17	0.35	0.39
15	-129.54	1.00	0.18	0.36	0.40
16	-128.02	1.00	0.18	0.37	0.41
17	-126.49	1.00	0.18	0.38	0.42
18	-124.97	1.00	0.19	0.39	0.43
19	-123.44	1.00	0.19	0.40	0.44
20	-121.92	1.00	0.20	0.40	0.45
21	-120.40	1.00	0.20	0.42	0.46
22	-118.87	1.00	0.21	0.43	0.47
23	-117.35	1.00	0.21	0.44	0.49
24	-115.82	1.00	0.22	0.45	0.50
25	-114.30	1.00	0.22	0.46	0.51
26	-112.78	1.00	0.23	0.47	0.52
27	-111.25	1.00	0.23	0.48	0.54
28	-109.73	1.00	0.24	0.50	0.55
29	-108.20	1.00	0.25	0.51	0.57
30	-106.68	1.00	0.25	0.53	0.58
31	-105.16	1.00	0.26	0.54	0.60
32	-103.63	1.00	0.27	0.56	0.62
33	-102.11	1.00	0.28	0.57	0.64
34	-100.58	1.00	0.28	0.59	0.65
35	-99.06	1.00	0.29	0.61	0.67
36	-97.54	1.00	0.30	0.63	0.69
37	-96.01	1.00	0.31	0.65	0.72
38	-94.49	1.00	0.32	0.67	0.74
39	-92.96	1.00	0.33	0.69	0.76
40	-91.44	1.00	0.34	0.71	0.79

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

41	-89.92	1.00	0.35	0.73	0.81
42	-88.39	1.00	0.36	0.76	0.84
43	-86.87	1.00	0.37	0.78	0.87
44	-85.34	1.00	0.38	0.81	0.90
45	-83.82	1.00	0.40	0.84	0.93
46	-82.30	1.00	0.41	0.87	0.96
47	-80.77	1.00	0.42	0.90	1.00
48	-79.25	1.00	0.44	0.93	1.03
49	-77.72	1.00	0.45	0.97	1.07
50	-76.20	1.00	0.47	1.01	1.11
51	-74.68	1.00	0.49	1.05	1.15
52	-73.15	1.00	0.50	1.09	1.20
53	-71.63	1.00	0.52	1.13	1.25
54	-70.10	1.00	0.54	1.18	1.30
55	-68.58	1.00	0.56	1.23	1.35
56	-67.06	1.00	0.59	1.28	1.41
57	-65.53	1.00	0.61	1.34	1.47
58	-64.01	1.00	0.63	1.40	1.54
59	-62.48	1.00	0.66	1.47	1.61
60	-60.96	1.00	0.69	1.54	1.68
61	-59.44	1.00	0.72	1.61	1.76
62	-57.91	1.00	0.75	1.69	1.85
63	-56.39	1.00	0.79	1.77	1.94
64	-54.86	1.00	0.82	1.87	2.04
65	-53.34	1.00	0.86	1.96	2.14
66	-51.82	1.00	0.90	2.07	2.26
67	-50.29	1.00	0.95	2.18	2.38
68	-48.77	1.00	0.99	2.31	2.51
69	-47.24	1.00	1.05	2.44	2.66
70	-45.72	1.00	1.10	2.59	2.81
71	-44.20	1.00	1.16	2.75	2.98
72	-42.67	1.00	1.22	2.92	3.17
73	-41.15	1.00	1.29	3.11	3.37
74	-39.62	1.00	1.36	3.32	3.59
75	-38.10	1.00	1.44	3.55	3.83
76	-36.58	1.00	1.53	3.80	4.10
77	-35.05	1.00	1.62	4.08	4.39
78	-33.53	1.00	1.72	4.38	4.71
79	-32.00	1.00	1.82	4.72	5.06
80	-30.48	1.00	1.94	5.09	5.45
81	-28.96	1.00	2.06	5.51	5.88
82	-27.43	1.00	2.20	5.97	6.36
83	-25.91	1.00	2.34	6.49	6.90
84	-24.38	1.00	2.50	7.06	7.49
85	-22.86	1.00	2.67	7.71	8.16
86	-21.34	1.00	2.85	8.43	8.89
87	-19.81	1.00	3.04	9.23	9.71
88	-18.29	1.00	3.24	10.12	10.63
89	-16.76	1.00	3.46	11.12	11.64
90	-15.24	1.00	3.69	12.22	12.76
91	-13.72	1.00	3.94	13.43	14.00
92	-12.19	1.00	4.22	14.75	15.34
93	-10.67	1.00	4.52	16.18	16.80
94	-9.14	1.00	4.87	17.69	18.35
95	-7.62	1.00	5.29	19.25	19.96
96	-6.10	1.00	5.78	20.81	21.60
97	-4.57	1.00	6.38	22.29	23.18
98	-3.05	1.00	7.05	23.58	24.61
99	-1.52	1.00	7.78	24.56	25.76
100	0.00	1.00	8.48	25.11	26.51
101	1.52	1.00	9.09	25.16	26.75
102	3.05	1.00	9.52	24.69	26.46
103	4.57	1.00	9.73	23.76	25.68
104	6.10	1.00	9.73	22.48	24.49
105	7.62	1.00	9.53	20.97	23.03
106	9.14	1.00	9.17	19.34	21.40
107	10.67	1.00	8.71	17.70	19.73
108	12.19	1.00	8.18	16.11	18.07
109	13.72	1.00	7.63	14.62	16.49
110	15.24	1.00	7.07	13.24	15.01

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

111	16.76	1.00	6.52	11.99	13.65
112	18.29	1.00	6.01	10.86	12.41
113	19.81	1.00	5.52	9.85	11.29
114	21.34	1.00	5.07	8.95	10.29
115	22.86	1.00	4.66	8.15	9.39
116	24.38	1.00	4.29	7.44	8.59
117	25.91	1.00	3.95	6.81	7.87
118	27.43	1.00	3.64	6.25	7.23
119	28.96	1.00	3.36	5.75	6.65
120	30.48	1.00	3.10	5.30	6.14
121	32.00	1.00	2.87	4.90	5.68
122	33.53	1.00	2.66	4.54	5.26
123	35.05	1.00	2.47	4.21	4.88
124	36.58	1.00	2.30	3.92	4.55
125	38.10	1.00	2.15	3.65	4.24
126	39.62	1.00	2.01	3.41	3.96
127	41.15	1.00	1.88	3.19	3.71
128	42.67	1.00	1.76	3.00	3.47
129	44.20	1.00	1.65	2.81	3.26
130	45.72	1.00	1.55	2.65	3.07
131	47.24	1.00	1.46	2.50	2.89
132	48.77	1.00	1.38	2.36	2.73
133	50.29	1.00	1.30	2.23	2.58
134	51.82	1.00	1.23	2.11	2.44
135	53.34	1.00	1.17	2.00	2.31
136	54.86	1.00	1.10	1.90	2.20
137	56.39	1.00	1.05	1.80	2.09
138	57.91	1.00	1.00	1.72	1.98
139	59.44	1.00	0.95	1.63	1.89
140	60.96	1.00	0.90	1.56	1.80
141	62.48	1.00	0.86	1.49	1.72
142	64.01	1.00	0.82	1.42	1.64
143	65.53	1.00	0.78	1.36	1.57
144	67.06	1.00	0.75	1.30	1.50
145	68.58	1.00	0.72	1.25	1.44
146	70.10	1.00	0.69	1.20	1.38
147	71.63	1.00	0.66	1.15	1.32
148	73.15	1.00	0.63	1.10	1.27
149	74.68	1.00	0.61	1.06	1.22
150	76.20	1.00	0.58	1.02	1.17
151	77.72	1.00	0.56	0.98	1.13
152	79.25	1.00	0.54	0.94	1.09
153	80.77	1.00	0.52	0.91	1.05
154	82.30	1.00	0.50	0.88	1.01
155	83.82	1.00	0.48	0.85	0.98
156	85.34	1.00	0.47	0.82	0.94
157	86.87	1.00	0.45	0.79	0.91
158	88.39	1.00	0.43	0.76	0.88
159	89.92	1.00	0.42	0.74	0.85
160	91.44	1.00	0.41	0.72	0.82
161	92.96	1.00	0.39	0.69	0.80
162	94.49	1.00	0.38	0.67	0.77
163	96.01	1.00	0.37	0.65	0.75
164	97.54	1.00	0.36	0.63	0.72
165	99.06	1.00	0.35	0.61	0.70
166	100.58	1.00	0.34	0.59	0.68
167	102.11	1.00	0.33	0.58	0.66
168	103.63	1.00	0.32	0.56	0.64
169	105.16	1.00	0.31	0.54	0.63
170	106.68	1.00	0.30	0.53	0.61
171	108.20	1.00	0.29	0.52	0.59
172	109.73	1.00	0.28	0.50	0.57
173	111.25	1.00	0.27	0.49	0.56
174	112.78	1.00	0.27	0.48	0.54
175	114.30	1.00	0.26	0.46	0.53
176	115.82	1.00	0.25	0.45	0.52
177	117.35	1.00	0.25	0.44	0.50
178	118.87	1.00	0.24	0.43	0.49
179	120.40	1.00	0.23	0.42	0.48
180	121.92	1.00	0.23	0.41	0.47

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

181	123.44	1.00	0.22	0.40	0.46
182	124.97	1.00	0.22	0.39	0.44
183	126.49	1.00	0.21	0.38	0.43
184	128.02	1.00	0.21	0.37	0.42
185	129.54	1.00	0.20	0.36	0.41
186	131.06	1.00	0.20	0.35	0.40
187	132.59	1.00	0.19	0.35	0.40
188	134.11	1.00	0.19	0.34	0.39
189	135.64	1.00	0.18	0.33	0.38
190	137.16	1.00	0.18	0.32	0.37
191	138.68	1.00	0.18	0.32	0.36
192	140.21	1.00	0.17	0.31	0.35
193	141.73	1.00	0.17	0.30	0.35
194	143.26	1.00	0.16	0.30	0.34
195	144.78	1.00	0.16	0.29	0.33
196	146.30	1.00	0.16	0.28	0.32
197	147.83	1.00	0.15	0.28	0.32
198	149.35	1.00	0.15	0.27	0.31
199	150.88	1.00	0.15	0.27	0.31
200	152.40	1.00	0.14	0.26	0.30

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

ROW CALC 3 - Typical Proposed 115kV Structure
Electric Field

---- List of Conductors ----

ID#	Diameter (cm)	Phase Voltage (kV)	Horizontal Angle (degree)	Height above Coordinate X(m)	Ground H(m)
1A	2.81	66.40	0.0	2.134	19.812
1B	2.81	66.40	-120.0	-2.134	18.288
1C	2.81	66.40	120.0	2.134	16.764

Electric Field and Space Potential are calculated at 200 points uniformly distributed along a straight-line that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

---- Results ----

Point	X(m)	H(m)	E(V/m)	Vsp(V)
0	-152.40	1.00	2.74	2.74
1	-150.88	1.00	2.80	2.80
2	-149.35	1.00	2.86	2.86
3	-147.83	1.00	2.92	2.92
4	-146.30	1.00	2.99	2.99
5	-144.78	1.00	3.05	3.05
6	-143.26	1.00	3.12	3.12
7	-141.73	1.00	3.19	3.19
8	-140.21	1.00	3.27	3.27
9	-138.68	1.00	3.34	3.34
10	-137.16	1.00	3.42	3.42
11	-135.64	1.00	3.50	3.50
12	-134.11	1.00	3.59	3.59
13	-132.59	1.00	3.68	3.68
14	-131.06	1.00	3.77	3.77
15	-129.54	1.00	3.86	3.86
16	-128.02	1.00	3.96	3.96
17	-126.49	1.00	4.06	4.06
18	-124.97	1.00	4.17	4.17
19	-123.44	1.00	4.28	4.28
20	-121.92	1.00	4.39	4.39
21	-120.40	1.00	4.51	4.51
22	-118.87	1.00	4.63	4.63
23	-117.35	1.00	4.76	4.76
24	-115.82	1.00	4.90	4.90
25	-114.30	1.00	5.04	5.04
26	-112.78	1.00	5.18	5.18
27	-111.25	1.00	5.34	5.34
28	-109.73	1.00	5.50	5.50
29	-108.20	1.00	5.66	5.66
30	-106.68	1.00	5.84	5.84
31	-105.16	1.00	6.02	6.02
32	-103.63	1.00	6.21	6.21
33	-102.11	1.00	6.41	6.41
34	-100.58	1.00	6.62	6.62
35	-99.06	1.00	6.84	6.84
36	-97.54	1.00	7.08	7.08
37	-96.01	1.00	7.32	7.32
38	-94.49	1.00	7.58	7.58
39	-92.96	1.00	7.85	7.85
40	-91.44	1.00	8.13	8.13
41	-89.92	1.00	8.43	8.43
42	-88.39	1.00	8.75	8.75
43	-86.87	1.00	9.09	9.09
44	-85.34	1.00	9.44	9.44

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

45	-83.82	1.00	9.82	9.82
46	-82.30	1.00	10.22	10.22
47	-80.77	1.00	10.64	10.64
48	-79.25	1.00	11.09	11.09
49	-77.72	1.00	11.57	11.57
50	-76.20	1.00	12.07	12.07
51	-74.68	1.00	12.62	12.62
52	-73.15	1.00	13.20	13.20
53	-71.63	1.00	13.82	13.81
54	-70.10	1.00	14.48	14.48
55	-68.58	1.00	15.19	15.19
56	-67.06	1.00	15.95	15.95
57	-65.53	1.00	16.77	16.77
58	-64.01	1.00	17.65	17.65
59	-62.48	1.00	18.60	18.60
60	-60.96	1.00	19.62	19.62
61	-59.44	1.00	20.73	20.73
62	-57.91	1.00	21.93	21.93
63	-56.39	1.00	23.23	23.23
64	-54.86	1.00	24.65	24.65
65	-53.34	1.00	26.19	26.19
66	-51.82	1.00	27.87	27.87
67	-50.29	1.00	29.71	29.70
68	-48.77	1.00	31.72	31.71
69	-47.24	1.00	33.92	33.92
70	-45.72	1.00	36.35	36.34
71	-44.20	1.00	39.01	39.00
72	-42.67	1.00	41.95	41.94
73	-41.15	1.00	45.20	45.19
74	-39.62	1.00	48.80	48.78
75	-38.10	1.00	52.78	52.76
76	-36.58	1.00	57.20	57.18
77	-35.05	1.00	62.11	62.08
78	-33.53	1.00	67.57	67.54
79	-32.00	1.00	73.64	73.60
80	-30.48	1.00	80.39	80.35
81	-28.96	1.00	87.89	87.84
82	-27.43	1.00	96.21	96.14
83	-25.91	1.00	105.41	105.32
84	-24.38	1.00	115.52	115.41
85	-22.86	1.00	126.58	126.44
86	-21.34	1.00	138.55	138.37
87	-19.81	1.00	151.34	151.11
88	-18.29	1.00	164.74	164.46
89	-16.76	1.00	178.45	178.08
90	-15.24	1.00	191.98	191.50
91	-13.72	1.00	204.64	204.02
92	-12.19	1.00	215.62	214.81
93	-10.67	1.00	223.96	222.92
94	-9.14	1.00	228.83	227.49
95	-7.62	1.00	229.75	228.03
96	-6.10	1.00	227.01	224.85
97	-4.57	1.00	222.04	219.40
98	-3.05	1.00	217.31	214.23
99	-1.52	1.00	215.53	212.15
100	0.00	1.00	218.02	214.57
101	1.52	1.00	223.66	220.38
102	3.05	1.00	229.54	226.57
103	4.57	1.00	232.59	230.01
104	6.10	1.00	230.94	228.76
105	7.62	1.00	224.22	222.41
106	9.14	1.00	213.21	211.72
107	10.67	1.00	199.23	198.03
108	12.19	1.00	183.70	182.74
109	13.72	1.00	167.77	167.00
110	15.24	1.00	152.28	151.67
111	16.76	1.00	137.74	137.26
112	18.29	1.00	124.40	124.03
113	19.81	1.00	112.36	112.07
114	21.34	1.00	101.59	101.35

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

115	22.86	1.00	92.00	91.81
116	24.38	1.00	83.48	83.34
117	25.91	1.00	75.94	75.82
118	27.43	1.00	69.24	69.14
119	28.96	1.00	63.29	63.21
120	30.48	1.00	57.99	57.93
121	32.00	1.00	53.27	53.22
122	33.53	1.00	49.05	49.01
123	35.05	1.00	45.27	45.24
124	36.58	1.00	41.88	41.85
125	38.10	1.00	38.83	38.81
126	39.62	1.00	36.08	36.06
127	41.15	1.00	33.59	33.57
128	42.67	1.00	31.33	31.32
129	44.20	1.00	29.29	29.28
130	45.72	1.00	27.42	27.42
131	47.24	1.00	25.73	25.72
132	48.77	1.00	24.17	24.17
133	50.29	1.00	22.75	22.75
134	51.82	1.00	21.45	21.44
135	53.34	1.00	20.25	20.25
136	54.86	1.00	19.15	19.14
137	56.39	1.00	18.13	18.13
138	57.91	1.00	17.19	17.18
139	59.44	1.00	16.32	16.31
140	60.96	1.00	15.51	15.51
141	62.48	1.00	14.76	14.76
142	64.01	1.00	14.06	14.06
143	65.53	1.00	13.41	13.41
144	67.06	1.00	12.80	12.80
145	68.58	1.00	12.23	12.23
146	70.10	1.00	11.70	11.70
147	71.63	1.00	11.21	11.21
148	73.15	1.00	10.74	10.74
149	74.68	1.00	10.30	10.30
150	76.20	1.00	9.89	9.89
151	77.72	1.00	9.50	9.50
152	79.25	1.00	9.14	9.14
153	80.77	1.00	8.79	8.79
154	82.30	1.00	8.47	8.47
155	83.82	1.00	8.16	8.16
156	85.34	1.00	7.87	7.87
157	86.87	1.00	7.59	7.59
158	88.39	1.00	7.33	7.33
159	89.92	1.00	7.08	7.08
160	91.44	1.00	6.84	6.84
161	92.96	1.00	6.62	6.62
162	94.49	1.00	6.41	6.41
163	96.01	1.00	6.20	6.20
164	97.54	1.00	6.01	6.01
165	99.06	1.00	5.82	5.82
166	100.58	1.00	5.65	5.65
167	102.11	1.00	5.48	5.48
168	103.63	1.00	5.32	5.32
169	105.16	1.00	5.17	5.17
170	106.68	1.00	5.02	5.02
171	108.20	1.00	4.88	4.88
172	109.73	1.00	4.74	4.74
173	111.25	1.00	4.61	4.61
174	112.78	1.00	4.49	4.49
175	114.30	1.00	4.37	4.37
176	115.82	1.00	4.25	4.25
177	117.35	1.00	4.14	4.14
178	118.87	1.00	4.04	4.04
179	120.40	1.00	3.94	3.94
180	121.92	1.00	3.84	3.84
181	123.44	1.00	3.74	3.74
182	124.97	1.00	3.65	3.65
183	126.49	1.00	3.57	3.57
184	128.02	1.00	3.48	3.48

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

185	129.54	1.00	3.40	3.40
186	131.06	1.00	3.32	3.32
187	132.59	1.00	3.24	3.24
188	134.11	1.00	3.17	3.17
189	135.64	1.00	3.10	3.10
190	137.16	1.00	3.03	3.03
191	138.68	1.00	2.97	2.97
192	140.21	1.00	2.90	2.90
193	141.73	1.00	2.84	2.84
194	143.26	1.00	2.78	2.78
195	144.78	1.00	2.72	2.72
196	146.30	1.00	2.67	2.67
197	147.83	1.00	2.61	2.61
198	149.35	1.00	2.56	2.56
199	150.88	1.00	2.51	2.51
200	152.40	1.00	2.46	2.46

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

**ROW CALC 3 - Typical Proposed 115kV Structure
Magnetic Field**

---- List of Conductors ----

Conductor ID#	Phase (A)	Horizontal Angle (degree)	Coordinate X(m)	Height above Ground H(m)
1	665.00	0.0	2.13	19.81
2	665.00	-120	-2.13	18.29
3	665.00	120.0	2.13	16.76
4	0.00	0.0	0.00	21.34

Magnetic Field are calculated at 200 points uniformly distributed along a straight line that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

Results -----

--- Magnetic Field ---					
Calculation Point(#)	X(m)	H(m)	Bmin (mG)	Bmax (mG)	Bresultant (mG)
0	-152.40	1.00	0.15	0.24	0.28
1	-150.88	1.00	0.15	0.25	0.29
2	-149.35	1.00	0.15	0.25	0.29
3	-147.83	1.00	0.15	0.26	0.30
4	-146.30	1.00	0.16	0.26	0.31
5	-144.78	1.00	0.16	0.27	0.31
6	-143.26	1.00	0.16	0.27	0.32
7	-141.73	1.00	0.17	0.28	0.33
8	-140.21	1.00	0.17	0.29	0.33
9	-138.68	1.00	0.17	0.29	0.34
10	-137.16	1.00	0.18	0.30	0.35
11	-135.64	1.00	0.18	0.30	0.36
12	-134.11	1.00	0.19	0.31	0.36
13	-132.59	1.00	0.19	0.32	0.37
14	-131.06	1.00	0.19	0.33	0.38
15	-129.54	1.00	0.20	0.33	0.39
16	-128.02	1.00	0.20	0.34	0.40
17	-126.49	1.00	0.21	0.35	0.41
18	-124.97	1.00	0.21	0.36	0.42
19	-123.44	1.00	0.22	0.37	0.43
20	-121.92	1.00	0.22	0.38	0.44
21	-120.40	1.00	0.23	0.39	0.45
22	-118.87	1.00	0.23	0.40	0.46
23	-117.35	1.00	0.24	0.41	0.47
24	-115.82	1.00	0.25	0.42	0.48
25	-114.30	1.00	0.25	0.43	0.50
26	-112.78	1.00	0.26	0.44	0.51
27	-111.25	1.00	0.27	0.45	0.52
28	-109.73	1.00	0.27	0.46	0.54
29	-108.20	1.00	0.28	0.48	0.55
30	-106.68	1.00	0.29	0.49	0.57
31	-105.16	1.00	0.30	0.50	0.58
32	-103.63	1.00	0.31	0.52	0.60
33	-102.11	1.00	0.31	0.53	0.62
34	-100.58	1.00	0.32	0.55	0.64
35	-99.06	1.00	0.33	0.56	0.66
36	-97.54	1.00	0.34	0.58	0.68
37	-96.01	1.00	0.35	0.60	0.70
38	-94.49	1.00	0.36	0.62	0.72
39	-92.96	1.00	0.38	0.64	0.74
40	-91.44	1.00	0.39	0.66	0.76
41	-89.92	1.00	0.40	0.68	0.79
42	-88.39	1.00	0.41	0.70	0.82
43	-86.87	1.00	0.43	0.73	0.84

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

44	-85.34	1.00	0.44	0.75	0.87
45	-83.82	1.00	0.46	0.78	0.90
46	-82.30	1.00	0.47	0.81	0.94
47	-80.77	1.00	0.49	0.84	0.97
48	-79.25	1.00	0.51	0.87	1.01
49	-77.72	1.00	0.53	0.90	1.04
50	-76.20	1.00	0.55	0.94	1.08
51	-74.68	1.00	0.57	0.97	1.13
52	-73.15	1.00	0.59	1.01	1.17
53	-71.63	1.00	0.61	1.05	1.22
54	-70.10	1.00	0.64	1.10	1.27
55	-68.58	1.00	0.66	1.14	1.32
56	-67.06	1.00	0.69	1.19	1.38
57	-65.53	1.00	0.72	1.25	1.44
58	-64.01	1.00	0.75	1.30	1.50
59	-62.48	1.00	0.78	1.36	1.57
60	-60.96	1.00	0.82	1.43	1.64
61	-59.44	1.00	0.86	1.49	1.72
62	-57.91	1.00	0.90	1.57	1.81
63	-56.39	1.00	0.94	1.65	1.90
64	-54.86	1.00	0.99	1.73	1.99
65	-53.34	1.00	1.04	1.82	2.10
66	-51.82	1.00	1.09	1.92	2.21
67	-50.29	1.00	1.15	2.03	2.33
68	-48.77	1.00	1.21	2.14	2.46
69	-47.24	1.00	1.28	2.27	2.60
70	-45.72	1.00	1.35	2.40	2.76
71	-44.20	1.00	1.43	2.55	2.92
72	-42.67	1.00	1.52	2.71	3.11
73	-41.15	1.00	1.61	2.88	3.30
74	-39.62	1.00	1.71	3.08	3.52
75	-38.10	1.00	1.83	3.28	3.76
76	-36.58	1.00	1.95	3.51	4.02
77	-35.05	1.00	2.08	3.77	4.30
78	-33.53	1.00	2.23	4.05	4.62
79	-32.00	1.00	2.39	4.35	4.96
80	-30.48	1.00	2.57	4.69	5.35
81	-28.96	1.00	2.76	5.07	5.77
82	-27.43	1.00	2.98	5.49	6.24
83	-25.91	1.00	3.22	5.95	6.76
84	-24.38	1.00	3.48	6.46	7.34
85	-22.86	1.00	3.77	7.03	7.98
86	-21.34	1.00	4.09	7.66	8.69
87	-19.81	1.00	4.45	8.36	9.47
88	-18.29	1.00	4.84	9.13	10.34
89	-16.76	1.00	5.28	9.98	11.29
90	-15.24	1.00	5.75	10.90	12.32
91	-13.72	1.00	6.26	11.89	13.43
92	-12.19	1.00	6.81	12.94	14.62
93	-10.67	1.00	7.39	14.03	15.85
94	-9.14	1.00	7.99	15.13	17.11
95	-7.62	1.00	8.60	16.21	18.35
96	-6.10	1.00	9.21	17.22	19.52
97	-4.57	1.00	9.78	18.09	20.56
98	-3.05	1.00	10.28	18.76	21.39
99	-1.52	1.00	10.69	19.19	21.97
100	0.00	1.00	10.98	19.33	22.23
101	1.52	1.00	11.13	19.17	22.16
102	3.05	1.00	11.12	18.71	21.77
103	4.57	1.00	10.95	18.01	21.08
104	6.10	1.00	10.65	17.10	20.14
105	7.62	1.00	10.22	16.06	19.04
106	9.14	1.00	9.70	14.95	17.82
107	10.67	1.00	9.12	13.82	16.56
108	12.19	1.00	8.51	12.71	15.29
109	13.72	1.00	7.89	11.65	14.07
110	15.24	1.00	7.29	10.66	12.91
111	16.76	1.00	6.71	9.74	11.83
112	18.29	1.00	6.16	8.91	10.83
113	19.81	1.00	5.66	8.15	9.92

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

114	21.34	1.00	5.19	7.46	9.09
115	22.86	1.00	4.77	6.85	8.34
116	24.38	1.00	4.38	6.29	7.66
117	25.91	1.00	4.03	5.79	7.05
118	27.43	1.00	3.71	5.34	6.51
119	28.96	1.00	3.43	4.94	6.01
120	30.48	1.00	3.17	4.57	5.56
121	32.00	1.00	2.93	4.24	5.16
122	33.53	1.00	2.72	3.95	4.79
123	35.05	1.00	2.53	3.68	4.46
124	36.58	1.00	2.36	3.43	4.16
125	38.10	1.00	2.20	3.21	3.89
126	39.62	1.00	2.05	3.01	3.64
127	41.15	1.00	1.92	2.82	3.41
128	42.67	1.00	1.80	2.65	3.21
129	44.20	1.00	1.69	2.50	3.02
130	45.72	1.00	1.59	2.35	2.84
131	47.24	1.00	1.50	2.22	2.68
132	48.77	1.00	1.42	2.10	2.53
133	50.29	1.00	1.34	1.99	2.40
134	51.82	1.00	1.27	1.89	2.27
135	53.34	1.00	1.20	1.79	2.16
136	54.86	1.00	1.14	1.70	2.05
137	56.39	1.00	1.08	1.62	1.95
138	57.91	1.00	1.03	1.54	1.85
139	59.44	1.00	0.98	1.47	1.77
140	60.96	1.00	0.93	1.40	1.68
141	62.48	1.00	0.89	1.34	1.61
142	64.01	1.00	0.85	1.28	1.54
143	65.53	1.00	0.81	1.23	1.47
144	67.06	1.00	0.78	1.18	1.41
145	68.58	1.00	0.74	1.13	1.35
146	70.10	1.00	0.71	1.08	1.30
147	71.63	1.00	0.68	1.04	1.24
148	73.15	1.00	0.66	1.00	1.19
149	74.68	1.00	0.63	0.96	1.15
150	76.20	1.00	0.61	0.92	1.11
151	77.72	1.00	0.58	0.89	1.06
152	79.25	1.00	0.56	0.86	1.03
153	80.77	1.00	0.54	0.83	0.99
154	82.30	1.00	0.52	0.80	0.95
155	83.82	1.00	0.50	0.77	0.92
156	85.34	1.00	0.49	0.74	0.89
157	86.87	1.00	0.47	0.72	0.86
158	88.39	1.00	0.45	0.70	0.83
159	89.92	1.00	0.44	0.67	0.80
160	91.44	1.00	0.42	0.65	0.78
161	92.96	1.00	0.41	0.63	0.75
162	94.49	1.00	0.40	0.61	0.73
163	96.01	1.00	0.39	0.59	0.71
164	97.54	1.00	0.37	0.58	0.69
165	99.06	1.00	0.36	0.56	0.67
166	100.58	1.00	0.35	0.54	0.65
167	102.11	1.00	0.34	0.53	0.63
168	103.63	1.00	0.33	0.51	0.61
169	105.16	1.00	0.32	0.50	0.59
170	106.68	1.00	0.31	0.48	0.58
171	108.20	1.00	0.30	0.47	0.56
172	109.73	1.00	0.30	0.46	0.54
173	111.25	1.00	0.29	0.45	0.53
174	112.78	1.00	0.28	0.43	0.52
175	114.30	1.00	0.27	0.42	0.50
176	115.82	1.00	0.27	0.41	0.49
177	117.35	1.00	0.26	0.40	0.48
178	118.87	1.00	0.25	0.39	0.47
179	120.40	1.00	0.25	0.38	0.45
180	121.92	1.00	0.24	0.37	0.44
181	123.44	1.00	0.23	0.36	0.43
182	124.97	1.00	0.23	0.36	0.42
183	126.49	1.00	0.22	0.35	0.41

Project Title	Cassadaga Wind Farm EMF
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	Output Data

184	128.02	1.00	0.22	0.34	0.40
185	129.54	1.00	0.21	0.33	0.39
186	131.06	1.00	0.21	0.32	0.38
187	132.59	1.00	0.20	0.32	0.38
188	134.11	1.00	0.20	0.31	0.37
189	135.64	1.00	0.19	0.30	0.36
190	137.16	1.00	0.19	0.30	0.35
191	138.68	1.00	0.19	0.29	0.34
192	140.21	1.00	0.18	0.28	0.34
193	141.73	1.00	0.18	0.28	0.33
194	143.26	1.00	0.17	0.27	0.32
195	144.78	1.00	0.17	0.27	0.32
196	146.30	1.00	0.17	0.26	0.31
197	147.83	1.00	0.16	0.26	0.30
198	149.35	1.00	0.16	0.25	0.30
199	150.88	1.00	0.16	0.25	0.29
200	152.40	1.00	0.15	0.24	0.29

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**ROW CALC 4 - Typical Proposed 34kV Collection Structure with Parallel Distribution
Electric Field**

---- List of Conductors ----

ID#	Diameter (cm)	Phase Voltage (kV)	Horizontal Angle (degree)	Height above Coordinate X(m)	Ground H(m)
1C	0.98	0.00	0.0	0.0	15.24
5A	2.81	19.92	0.0	0.6	13.18
5B	2.81	19.92	-120.0	-0.6	12.12
5C	2.81	19.92	120.0	0.6	11.05
6A	1.00	19.92	0.0	23.32	9.14
6B	1.00	19.92	-120.0	24.38	9.14
6C	1.00	19.92	120.0	25.45	9.14

Electric Field and Space Potential are calculated at 200 points uniformly distributed along a straight-line that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

---- Results ----

Point	X(m)	H(m)	E(V/m)	Vsp(V)
0	-152.40	1.00	0.31	0.31
1	-150.88	1.00	0.31	0.31
2	-149.35	1.00	0.32	0.32
3	-147.83	1.00	0.33	0.33
4	-146.30	1.00	0.33	0.33
5	-144.78	1.00	0.34	0.34
6	-143.26	1.00	0.35	0.35
7	-141.73	1.00	0.35	0.35
8	-140.21	1.00	0.36	0.36
9	-138.68	1.00	0.37	0.37
10	-137.16	1.00	0.38	0.38
11	-135.64	1.00	0.39	0.39
12	-134.11	1.00	0.39	0.39
13	-132.59	1.00	0.40	0.40
14	-131.06	1.00	0.41	0.41
15	-129.54	1.00	0.42	0.42
16	-128.02	1.00	0.43	0.43
17	-126.49	1.00	0.44	0.44
18	-124.97	1.00	0.45	0.45
19	-123.44	1.00	0.46	0.46
20	-121.92	1.00	0.47	0.47
21	-120.40	1.00	0.48	0.48
22	-118.87	1.00	0.50	0.50
23	-117.35	1.00	0.51	0.51
24	-115.82	1.00	0.52	0.52
25	-114.30	1.00	0.54	0.54
26	-112.78	1.00	0.55	0.55
27	-111.25	1.00	0.56	0.56
28	-109.73	1.00	0.58	0.58
29	-108.20	1.00	0.59	0.59
30	-106.68	1.00	0.61	0.61
31	-105.16	1.00	0.63	0.63
32	-103.63	1.00	0.65	0.65
33	-102.11	1.00	0.66	0.66
34	-100.58	1.00	0.68	0.68
35	-99.06	1.00	0.70	0.70
36	-97.54	1.00	0.72	0.72
37	-96.01	1.00	0.75	0.75
38	-94.49	1.00	0.77	0.77
39	-92.96	1.00	0.79	0.79
40	-91.44	1.00	0.82	0.82

Project Title	Cassadaga Wind Farm EMF
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41	-89.92	1.00	0.84	0.84
42	-88.39	1.00	0.87	0.87
43	-86.87	1.00	0.90	0.90
44	-85.34	1.00	0.93	0.93
45	-83.82	1.00	0.96	0.96
46	-82.30	1.00	1.00	1.00
47	-80.77	1.00	1.03	1.03
48	-79.25	1.00	1.07	1.07
49	-77.72	1.00	1.11	1.11
50	-76.20	1.00	1.15	1.15
51	-74.68	1.00	1.19	1.19
52	-73.15	1.00	1.24	1.24
53	-71.63	1.00	1.29	1.29
54	-70.10	1.00	1.34	1.34
55	-68.58	1.00	1.40	1.40
56	-67.06	1.00	1.46	1.46
57	-65.53	1.00	1.52	1.52
58	-64.01	1.00	1.59	1.59
59	-62.48	1.00	1.66	1.66
60	-60.96	1.00	1.73	1.73
61	-59.44	1.00	1.82	1.82
62	-57.91	1.00	1.90	1.90
63	-56.39	1.00	2.00	2.00
64	-54.86	1.00	2.10	2.10
65	-53.34	1.00	2.21	2.21
66	-51.82	1.00	2.33	2.33
67	-50.29	1.00	2.46	2.46
68	-48.77	1.00	2.60	2.60
69	-47.24	1.00	2.76	2.76
70	-45.72	1.00	2.93	2.93
71	-44.20	1.00	3.11	3.11
72	-42.67	1.00	3.32	3.32
73	-41.15	1.00	3.55	3.55
74	-39.62	1.00	3.80	3.80
75	-38.10	1.00	4.08	4.08
76	-36.58	1.00	4.40	4.40
77	-35.05	1.00	4.76	4.76
78	-33.53	1.00	5.18	5.17
79	-32.00	1.00	5.65	5.64
80	-30.48	1.00	6.19	6.18
81	-28.96	1.00	6.82	6.81
82	-27.43	1.00	7.57	7.55
83	-25.91	1.00	8.44	8.43
84	-24.38	1.00	9.49	9.47
85	-22.86	1.00	10.75	10.72
86	-21.34	1.00	12.27	12.23
87	-19.81	1.00	14.14	14.08
88	-18.29	1.00	16.43	16.36
89	-16.76	1.00	19.27	19.17
90	-15.24	1.00	22.81	22.67
91	-13.72	1.00	27.22	27.02
92	-12.19	1.00	32.72	32.45
93	-10.67	1.00	39.60	39.21
94	-9.14	1.00	48.16	47.61
95	-7.62	1.00	58.72	57.94
96	-6.10	1.00	71.48	70.41
97	-4.57	1.00	86.24	84.84
98	-3.05	1.00	101.89	100.16
99	-1.52	1.00	115.98	113.97
100	0.00	1.00	125.06	122.91
101	1.52	1.00	126.23	124.08
102	3.05	1.00	118.89	116.83
103	4.57	1.00	105.22	103.27
104	6.10	1.00	88.97	87.13
105	7.62	1.00	74.01	72.24
106	9.14	1.00	63.48	61.81
107	10.67	1.00	59.42	57.94
108	12.19	1.00	62.14	60.93
109	13.72	1.00	70.23	69.26
110	15.24	1.00	81.59	80.73

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111	16.76	1.00	93.77	92.81
112	18.29	1.00	103.26	101.93
113	19.81	1.00	104.91	102.81
114	21.34	1.00	93.31	89.69
115	22.86	1.00	68.51	61.79
116	24.38	1.00	49.91	39.07
117	25.91	1.00	66.07	59.09
118	27.43	1.00	90.01	86.27
119	28.96	1.00	101.11	98.98
120	30.48	1.00	99.07	97.82
121	32.00	1.00	89.23	88.48
122	33.53	1.00	76.52	76.06
123	35.05	1.00	63.88	63.60
124	36.58	1.00	52.66	52.48
125	38.10	1.00	43.24	43.12
126	39.62	1.00	35.54	35.46
127	41.15	1.00	29.34	29.28
128	42.67	1.00	24.36	24.32
129	44.20	1.00	20.37	20.34
130	45.72	1.00	17.16	17.13
131	47.24	1.00	14.56	14.54
132	48.77	1.00	12.45	12.43
133	50.29	1.00	10.72	10.71
134	51.82	1.00	9.30	9.29
135	53.34	1.00	8.12	8.11
136	54.86	1.00	7.13	7.13
137	56.39	1.00	6.30	6.30
138	57.91	1.00	5.61	5.60
139	59.44	1.00	5.01	5.01
140	60.96	1.00	4.51	4.51
141	62.48	1.00	4.07	4.07
142	64.01	1.00	3.70	3.70
143	65.53	1.00	3.37	3.37
144	67.06	1.00	3.09	3.09
145	68.58	1.00	2.84	2.84
146	70.10	1.00	2.62	2.62
147	71.63	1.00	2.43	2.43
148	73.15	1.00	2.26	2.26
149	74.68	1.00	2.11	2.11
150	76.20	1.00	1.97	1.97
151	77.72	1.00	1.85	1.85
152	79.25	1.00	1.74	1.74
153	80.77	1.00	1.64	1.64
154	82.30	1.00	1.55	1.55
155	83.82	1.00	1.46	1.46
156	85.34	1.00	1.39	1.39
157	86.87	1.00	1.32	1.32
158	88.39	1.00	1.26	1.26
159	89.92	1.00	1.20	1.20
160	91.44	1.00	1.14	1.14
161	92.96	1.00	1.09	1.09
162	94.49	1.00	1.05	1.05
163	96.01	1.00	1.00	1.00
164	97.54	1.00	0.96	0.96
165	99.06	1.00	0.93	0.93
166	100.58	1.00	0.89	0.89
167	102.11	1.00	0.86	0.86
168	103.63	1.00	0.83	0.83
169	105.16	1.00	0.80	0.80
170	106.68	1.00	0.77	0.77
171	108.20	1.00	0.75	0.74
172	109.73	1.00	0.72	0.72
173	111.25	1.00	0.70	0.70
174	112.78	1.00	0.68	0.68
175	114.30	1.00	0.65	0.65
176	115.82	1.00	0.63	0.63
177	117.35	1.00	0.62	0.62
178	118.87	1.00	0.60	0.60
179	120.40	1.00	0.58	0.58
180	121.92	1.00	0.56	0.56

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

181	123.44	1.00	0.55	0.55
182	124.97	1.00	0.53	0.53
183	126.49	1.00	0.52	0.52
184	128.02	1.00	0.51	0.51
185	129.54	1.00	0.49	0.49
186	131.06	1.00	0.48	0.48
187	132.59	1.00	0.47	0.47
188	134.11	1.00	0.46	0.46
189	135.64	1.00	0.45	0.45
190	137.16	1.00	0.43	0.43
191	138.68	1.00	0.42	0.42
192	140.21	1.00	0.41	0.41
193	141.73	1.00	0.40	0.40
194	143.26	1.00	0.40	0.40
195	144.78	1.00	0.39	0.39
196	146.30	1.00	0.38	0.38
197	147.83	1.00	0.37	0.37
198	149.35	1.00	0.36	0.36
199	150.88	1.00	0.35	0.35
200	152.40	1.00	0.35	0.35

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

**ROW CALC 4 - Typical Proposed 34kV Collection Structure with Parallel Distribution
Magnetic Field**

---- List of Conductors ----

Conductor ID#	Phase (A)	Horizontal Angle (degree)	Coordinate X(m)	Height above Ground H(m)
1	0.00	0.0	0.00	15.24
2	528.50	0.0	0.60	13.18
3	528.50	-120	-0.60	12.12
4	528.50	120.0	0.60	11.05
5	528.50	0.0	23.32	9.14
6	528.50	-120	24.38	9.14
7	528.50	120.0	25.45	9.14

Magnetic Field are calculated at 200 points uniformly distributed along a straight line that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

Results -----

--- Magnetic Field ---					
Calculation Point(#)	X(m)	H(m)	Bmin (mG)	Bmax (mG)	Bresultant (mG)
0	-152.40	1.00	0.04	0.11	0.11
1	-150.88	1.00	0.04	0.11	0.12
2	-149.35	1.00	0.04	0.11	0.12
3	-147.83	1.00	0.04	0.11	0.12
4	-146.30	1.00	0.04	0.12	0.12
5	-144.78	1.00	0.04	0.12	0.13
6	-143.26	1.00	0.05	0.12	0.13
7	-141.73	1.00	0.05	0.12	0.13
8	-140.21	1.00	0.05	0.13	0.13
9	-138.68	1.00	0.05	0.13	0.14
10	-137.16	1.00	0.05	0.13	0.14
11	-135.64	1.00	0.05	0.13	0.14
12	-134.11	1.00	0.05	0.14	0.15
13	-132.59	1.00	0.05	0.14	0.15
14	-131.06	1.00	0.06	0.14	0.15
15	-129.54	1.00	0.06	0.15	0.16
16	-128.02	1.00	0.06	0.15	0.16
17	-126.49	1.00	0.06	0.15	0.16
18	-124.97	1.00	0.06	0.16	0.17
19	-123.44	1.00	0.06	0.16	0.17
20	-121.92	1.00	0.06	0.16	0.17
21	-120.40	1.00	0.07	0.17	0.18
22	-118.87	1.00	0.07	0.17	0.18
23	-117.35	1.00	0.07	0.17	0.19
24	-115.82	1.00	0.07	0.18	0.19
25	-114.30	1.00	0.07	0.18	0.20
26	-112.78	1.00	0.08	0.19	0.20
27	-111.25	1.00	0.08	0.19	0.21
28	-109.73	1.00	0.08	0.20	0.21
29	-108.20	1.00	0.08	0.20	0.22
30	-106.68	1.00	0.08	0.21	0.22
31	-105.16	1.00	0.09	0.21	0.23
32	-103.63	1.00	0.09	0.22	0.24
33	-102.11	1.00	0.09	0.22	0.24
34	-100.58	1.00	0.10	0.23	0.25
35	-99.06	1.00	0.10	0.24	0.26
36	-97.54	1.00	0.10	0.24	0.26
37	-96.01	1.00	0.11	0.25	0.27
38	-94.49	1.00	0.11	0.26	0.28
39	-92.96	1.00	0.11	0.27	0.29
40	-91.44	1.00	0.12	0.27	0.30

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

41	-89.92	1.00	0.12	0.28	0.31
42	-88.39	1.00	0.12	0.29	0.32
43	-86.87	1.00	0.13	0.30	0.33
44	-85.34	1.00	0.13	0.31	0.34
45	-83.82	1.00	0.14	0.32	0.35
46	-82.30	1.00	0.14	0.33	0.36
47	-80.77	1.00	0.15	0.34	0.37
48	-79.25	1.00	0.16	0.35	0.39
49	-77.72	1.00	0.16	0.37	0.40
50	-76.20	1.00	0.17	0.38	0.42
51	-74.68	1.00	0.18	0.39	0.43
52	-73.15	1.00	0.18	0.41	0.45
53	-71.63	1.00	0.19	0.42	0.46
54	-70.10	1.00	0.20	0.44	0.48
55	-68.58	1.00	0.21	0.46	0.50
56	-67.06	1.00	0.22	0.47	0.52
57	-65.53	1.00	0.23	0.49	0.55
58	-64.01	1.00	0.24	0.51	0.57
59	-62.48	1.00	0.26	0.54	0.59
60	-60.96	1.00	0.27	0.56	0.62
61	-59.44	1.00	0.28	0.59	0.65
62	-57.91	1.00	0.30	0.61	0.68
63	-56.39	1.00	0.32	0.64	0.71
64	-54.86	1.00	0.33	0.67	0.75
65	-53.34	1.00	0.35	0.70	0.79
66	-51.82	1.00	0.38	0.74	0.83
67	-50.29	1.00	0.40	0.78	0.87
68	-48.77	1.00	0.42	0.82	0.92
69	-47.24	1.00	0.45	0.87	0.98
70	-45.72	1.00	0.48	0.91	1.03
71	-44.20	1.00	0.52	0.97	1.10
72	-42.67	1.00	0.56	1.03	1.17
73	-41.15	1.00	0.60	1.09	1.24
74	-39.62	1.00	0.64	1.16	1.33
75	-38.10	1.00	0.70	1.24	1.42
76	-36.58	1.00	0.75	1.32	1.52
77	-35.05	1.00	0.82	1.41	1.63
78	-33.53	1.00	0.89	1.52	1.76
79	-32.00	1.00	0.97	1.63	1.90
80	-30.48	1.00	1.07	1.76	2.06
81	-28.96	1.00	1.18	1.91	2.24
82	-27.43	1.00	1.30	2.07	2.45
83	-25.91	1.00	1.44	2.26	2.68
84	-24.38	1.00	1.61	2.47	2.95
85	-22.86	1.00	1.80	2.72	3.26
86	-21.34	1.00	2.02	3.00	3.62
87	-19.81	1.00	2.28	3.32	4.03
88	-18.29	1.00	2.59	3.70	4.52
89	-16.76	1.00	2.96	4.14	5.08
90	-15.24	1.00	3.39	4.65	5.75
91	-13.72	1.00	3.90	5.25	6.54
92	-12.19	1.00	4.50	5.95	7.46
93	-10.67	1.00	5.21	6.77	8.54
94	-9.14	1.00	6.02	7.71	9.78
95	-7.62	1.00	6.93	8.76	11.17
96	-6.10	1.00	7.89	9.92	12.68
97	-4.57	1.00	8.85	11.12	14.21
98	-3.05	1.00	9.69	12.28	15.64
99	-1.52	1.00	10.25	13.29	16.79
100	0.00	1.00	10.43	14.04	17.49
101	1.52	1.00	10.16	14.46	17.68
102	3.05	1.00	9.52	14.56	17.39
103	4.57	1.00	8.61	14.40	16.78
104	6.10	1.00	7.60	14.13	16.05
105	7.62	1.00	6.59	13.87	15.36
106	9.14	1.00	5.66	13.75	14.87
107	10.67	1.00	4.83	13.86	14.68
108	12.19	1.00	4.11	14.28	14.86
109	13.72	1.00	3.49	15.08	15.48
110	15.24	1.00	2.96	16.32	16.59

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

111	16.76	1.00	2.51	18.03	18.20
112	18.29	1.00	2.13	20.18	20.29
113	19.81	1.00	1.82	22.60	22.67
114	21.34	1.00	1.55	24.91	24.96
115	22.86	1.00	1.29	26.52	26.55
116	24.38	1.00	0.99	26.85	26.86
117	25.91	1.00	0.63	25.65	25.66
118	27.43	1.00	0.29	23.22	23.23
119	28.96	1.00	0.03	20.18	20.18
120	30.48	1.00	0.12	17.10	17.10
121	32.00	1.00	0.18	14.32	14.32
122	33.53	1.00	0.19	11.97	11.97
123	35.05	1.00	0.16	10.04	10.04
124	36.58	1.00	0.12	8.48	8.48
125	38.10	1.00	0.09	7.23	7.23
126	39.62	1.00	0.05	6.21	6.21
127	41.15	1.00	0.02	5.39	5.39
128	42.67	1.00	0.01	4.71	4.71
129	44.20	1.00	0.03	4.16	4.16
130	45.72	1.00	0.05	3.69	3.69
131	47.24	1.00	0.06	3.30	3.30
132	48.77	1.00	0.07	2.96	2.96
133	50.29	1.00	0.08	2.68	2.68
134	51.82	1.00	0.09	2.43	2.43
135	53.34	1.00	0.09	2.22	2.22
136	54.86	1.00	0.10	2.03	2.04
137	56.39	1.00	0.10	1.87	1.87
138	57.91	1.00	0.10	1.73	1.73
139	59.44	1.00	0.10	1.60	1.60
140	60.96	1.00	0.10	1.49	1.49
141	62.48	1.00	0.10	1.38	1.39
142	64.01	1.00	0.10	1.29	1.30
143	65.53	1.00	0.10	1.21	1.21
144	67.06	1.00	0.10	1.13	1.14
145	68.58	1.00	0.10	1.07	1.07
146	70.10	1.00	0.09	1.00	1.01
147	71.63	1.00	0.09	0.95	0.95
148	73.15	1.00	0.09	0.90	0.90
149	74.68	1.00	0.09	0.85	0.85
150	76.20	1.00	0.09	0.80	0.81
151	77.72	1.00	0.09	0.76	0.77
152	79.25	1.00	0.08	0.73	0.73
153	80.77	1.00	0.08	0.69	0.70
154	82.30	1.00	0.08	0.66	0.66
155	83.82	1.00	0.08	0.63	0.63
156	85.34	1.00	0.08	0.60	0.61
157	86.87	1.00	0.08	0.57	0.58
158	88.39	1.00	0.07	0.55	0.55
159	89.92	1.00	0.07	0.53	0.53
160	91.44	1.00	0.07	0.51	0.51
161	92.96	1.00	0.07	0.49	0.49
162	94.49	1.00	0.07	0.47	0.47
163	96.01	1.00	0.07	0.45	0.45
164	97.54	1.00	0.06	0.43	0.44
165	99.06	1.00	0.06	0.42	0.42
166	100.58	1.00	0.06	0.40	0.41
167	102.11	1.00	0.06	0.39	0.39
168	103.63	1.00	0.06	0.37	0.38
169	105.16	1.00	0.06	0.36	0.36
170	106.68	1.00	0.06	0.35	0.35
171	108.20	1.00	0.05	0.34	0.34
172	109.73	1.00	0.05	0.33	0.33
173	111.25	1.00	0.05	0.32	0.32
174	112.78	1.00	0.05	0.31	0.31
175	114.30	1.00	0.05	0.30	0.30
176	115.82	1.00	0.05	0.29	0.29
177	117.35	1.00	0.05	0.28	0.28
178	118.87	1.00	0.05	0.27	0.27
179	120.40	1.00	0.05	0.26	0.27
180	121.92	1.00	0.05	0.25	0.26

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

181	123.44	1.00	0.04	0.25	0.25
182	124.97	1.00	0.04	0.24	0.24
183	126.49	1.00	0.04	0.23	0.24
184	128.02	1.00	0.04	0.23	0.23
185	129.54	1.00	0.04	0.22	0.23
186	131.06	1.00	0.04	0.22	0.22
187	132.59	1.00	0.04	0.21	0.21
188	134.11	1.00	0.04	0.20	0.21
189	135.64	1.00	0.04	0.20	0.20
190	137.16	1.00	0.04	0.19	0.20
191	138.68	1.00	0.04	0.19	0.19
192	140.21	1.00	0.04	0.19	0.19
193	141.73	1.00	0.03	0.18	0.18
194	143.26	1.00	0.03	0.18	0.18
195	144.78	1.00	0.03	0.17	0.18
196	146.30	1.00	0.03	0.17	0.17
197	147.83	1.00	0.03	0.16	0.17
198	149.35	1.00	0.03	0.16	0.16
199	150.88	1.00	0.03	0.16	0.16
200	152.40	1.00	0.03	0.15	0.16

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

**ROW CALC 5 - Typical Proposed 34kV Collection Structure
Electric Field**

---- List of Conductors ----

ID#	Diameter (cm)	Phase Voltage (kV)	Horizontal Angle (degree)	Height above Coordinate X(m)	Height above Ground H(m)
1C	0.98	0.00	0.0	0.0	15.24
5A	2.81	19.92	0.0	0.6	13.18
5B	2.81	19.92	-120.0	-0.6	12.12
5C	2.81	19.92	120.0	0.6	11.05

Electric Field and Space Potential are calculated at 200 points uniformly distributed along a straight-line that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

---- Results ----

Point	X(m)	H(m)	E(V/m)	Vsp(V)
0	-152.40	1.00	0.30	0.30
1	-150.88	1.00	0.30	0.30
2	-149.35	1.00	0.31	0.31
3	-147.83	1.00	0.31	0.31
4	-146.30	1.00	0.32	0.32
5	-144.78	1.00	0.33	0.33
6	-143.26	1.00	0.33	0.33
7	-141.73	1.00	0.34	0.34
8	-140.21	1.00	0.35	0.35
9	-138.68	1.00	0.35	0.35
10	-137.16	1.00	0.36	0.36
11	-135.64	1.00	0.37	0.37
12	-134.11	1.00	0.38	0.38
13	-132.59	1.00	0.39	0.39
14	-131.06	1.00	0.40	0.40
15	-129.54	1.00	0.40	0.40
16	-128.02	1.00	0.41	0.41
17	-126.49	1.00	0.42	0.42
18	-124.97	1.00	0.43	0.43
19	-123.44	1.00	0.44	0.44
20	-121.92	1.00	0.45	0.45
21	-120.40	1.00	0.47	0.47
22	-118.87	1.00	0.48	0.48
23	-117.35	1.00	0.49	0.49
24	-115.82	1.00	0.50	0.50
25	-114.30	1.00	0.51	0.51
26	-112.78	1.00	0.53	0.53
27	-111.25	1.00	0.54	0.54
28	-109.73	1.00	0.56	0.56
29	-108.20	1.00	0.57	0.57
30	-106.68	1.00	0.59	0.59
31	-105.16	1.00	0.60	0.60
32	-103.63	1.00	0.62	0.62
33	-102.11	1.00	0.64	0.64
34	-100.58	1.00	0.66	0.66
35	-99.06	1.00	0.68	0.68
36	-97.54	1.00	0.70	0.70
37	-96.01	1.00	0.72	0.72
38	-94.49	1.00	0.74	0.74
39	-92.96	1.00	0.76	0.76
40	-91.44	1.00	0.79	0.79
41	-89.92	1.00	0.82	0.82
42	-88.39	1.00	0.84	0.84
43	-86.87	1.00	0.87	0.87

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

44	-85.34	1.00	0.90	0.90
45	-83.82	1.00	0.93	0.93
46	-82.30	1.00	0.96	0.96
47	-80.77	1.00	1.00	1.00
48	-79.25	1.00	1.04	1.04
49	-77.72	1.00	1.08	1.08
50	-76.20	1.00	1.12	1.12
51	-74.68	1.00	1.16	1.16
52	-73.15	1.00	1.21	1.21
53	-71.63	1.00	1.26	1.26
54	-70.10	1.00	1.31	1.31
55	-68.58	1.00	1.36	1.36
56	-67.06	1.00	1.42	1.42
57	-65.53	1.00	1.49	1.49
58	-64.01	1.00	1.55	1.55
59	-62.48	1.00	1.63	1.63
60	-60.96	1.00	1.70	1.70
61	-59.44	1.00	1.79	1.79
62	-57.91	1.00	1.88	1.88
63	-56.39	1.00	1.98	1.98
64	-54.86	1.00	2.08	2.08
65	-53.34	1.00	2.19	2.19
66	-51.82	1.00	2.32	2.32
67	-50.29	1.00	2.45	2.45
68	-48.77	1.00	2.60	2.60
69	-47.24	1.00	2.76	2.76
70	-45.72	1.00	2.94	2.94
71	-44.20	1.00	3.14	3.14
72	-42.67	1.00	3.36	3.36
73	-41.15	1.00	3.60	3.60
74	-39.62	1.00	3.87	3.87
75	-38.10	1.00	4.18	4.17
76	-36.58	1.00	4.52	4.52
77	-35.05	1.00	4.91	4.91
78	-33.53	1.00	5.35	5.35
79	-32.00	1.00	5.86	5.86
80	-30.48	1.00	6.45	6.45
81	-28.96	1.00	7.14	7.13
82	-27.43	1.00	7.94	7.93
83	-25.91	1.00	8.89	8.88
84	-24.38	1.00	10.02	10.01
85	-22.86	1.00	11.38	11.35
86	-21.34	1.00	13.02	12.98
87	-19.81	1.00	15.01	14.96
88	-18.29	1.00	17.45	17.38
89	-16.76	1.00	20.45	20.36
90	-15.24	1.00	24.17	24.05
91	-13.72	1.00	28.80	28.62
92	-12.19	1.00	34.55	34.29
93	-10.67	1.00	41.72	41.34
94	-9.14	1.00	50.62	50.08
95	-7.62	1.00	61.58	60.81
96	-6.10	1.00	74.83	73.78
97	-4.57	1.00	90.18	88.80
98	-3.05	1.00	106.54	104.84
99	-1.52	1.00	121.47	119.53
100	0.00	1.00	131.53	129.49
101	1.52	1.00	133.75	131.80
102	3.05	1.00	127.41	125.70
103	4.57	1.00	114.45	113.04
104	6.10	1.00	98.17	97.08
105	7.62	1.00	81.65	80.83
106	9.14	1.00	66.79	66.21
107	10.67	1.00	54.40	53.98
108	12.19	1.00	44.48	44.19
109	13.72	1.00	36.71	36.51
110	15.24	1.00	30.66	30.52
111	16.76	1.00	25.92	25.82
112	18.29	1.00	22.18	22.11
113	19.81	1.00	19.19	19.14

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

114	21.34	1.00	16.75	16.72
115	22.86	1.00	14.75	14.73
116	24.38	1.00	13.09	13.07
117	25.91	1.00	11.68	11.67
118	27.43	1.00	10.49	10.48
119	28.96	1.00	9.47	9.46
120	30.48	1.00	8.58	8.58
121	32.00	1.00	7.81	7.81
122	33.53	1.00	7.14	7.14
123	35.05	1.00	6.55	6.55
124	36.58	1.00	6.02	6.02
125	38.10	1.00	5.56	5.56
126	39.62	1.00	5.14	5.14
127	41.15	1.00	4.77	4.77
128	42.67	1.00	4.44	4.44
129	44.20	1.00	4.14	4.14
130	45.72	1.00	3.87	3.87
131	47.24	1.00	3.62	3.62
132	48.77	1.00	3.40	3.40
133	50.29	1.00	3.19	3.19
134	51.82	1.00	3.00	3.00
135	53.34	1.00	2.83	2.83
136	54.86	1.00	2.68	2.68
137	56.39	1.00	2.53	2.53
138	57.91	1.00	2.40	2.40
139	59.44	1.00	2.27	2.27
140	60.96	1.00	2.16	2.16
141	62.48	1.00	2.05	2.05
142	64.01	1.00	1.95	1.95
143	65.53	1.00	1.86	1.86
144	67.06	1.00	1.78	1.78
145	68.58	1.00	1.70	1.70
146	70.10	1.00	1.62	1.62
147	71.63	1.00	1.55	1.55
148	73.15	1.00	1.49	1.49
149	74.68	1.00	1.43	1.43
150	76.20	1.00	1.37	1.37
151	77.72	1.00	1.31	1.31
152	79.25	1.00	1.26	1.26
153	80.77	1.00	1.21	1.21
154	82.30	1.00	1.17	1.17
155	83.82	1.00	1.12	1.12
156	85.34	1.00	1.08	1.08
157	86.87	1.00	1.04	1.04
158	88.39	1.00	1.01	1.01
159	89.92	1.00	0.97	0.97
160	91.44	1.00	0.94	0.94
161	92.96	1.00	0.91	0.91
162	94.49	1.00	0.88	0.88
163	96.01	1.00	0.85	0.85
164	97.54	1.00	0.82	0.82
165	99.06	1.00	0.80	0.80
166	100.58	1.00	0.77	0.77
167	102.11	1.00	0.75	0.75
168	103.63	1.00	0.73	0.73
169	105.16	1.00	0.71	0.71
170	106.68	1.00	0.69	0.69
171	108.20	1.00	0.67	0.67
172	109.73	1.00	0.65	0.65
173	111.25	1.00	0.63	0.63
174	112.78	1.00	0.61	0.61
175	114.30	1.00	0.59	0.59
176	115.82	1.00	0.58	0.58
177	117.35	1.00	0.56	0.56
178	118.87	1.00	0.55	0.55
179	120.40	1.00	0.53	0.53
180	121.92	1.00	0.52	0.52
181	123.44	1.00	0.51	0.51
182	124.97	1.00	0.50	0.50
183	126.49	1.00	0.48	0.48

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

184	128.02	1.00	0.47	0.47
185	129.54	1.00	0.46	0.46
186	131.06	1.00	0.45	0.45
187	132.59	1.00	0.44	0.44
188	134.11	1.00	0.43	0.43
189	135.64	1.00	0.42	0.42
190	137.16	1.00	0.41	0.41
191	138.68	1.00	0.40	0.40
192	140.21	1.00	0.39	0.39
193	141.73	1.00	0.38	0.38
194	143.26	1.00	0.37	0.37
195	144.78	1.00	0.37	0.37
196	146.30	1.00	0.36	0.36
197	147.83	1.00	0.35	0.35
198	149.35	1.00	0.34	0.34
199	150.88	1.00	0.34	0.34
200	152.40	1.00	0.33	0.33

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

**ROW CALC 5 - Typical Proposed 34kV Collection Structure
Magnetic Field**

---- List of Conductors ----

Conductor ID#	Current (A)	Phase Angle (degree)	Horizontal Coordinate X(m)	Height above Ground H(m)
1	0.00	0.0	0.00	15.24
2	528.50	0.0	0.60	13.18
3	528.50	-120	0.60	12.12
4	528.50	120.0	0.60	11.05

Magnetic Field are calculated at 200 points uniformly distributed along a straight line that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

Results -----

Calculation Point(#)	--- Magnetic Field ---				
	X(m)	H(m)	Bmin (mG)	Bmax (mG)	Bresultant (mG)
0	-152.40	1.00	0.00	0.08	0.08
1	-150.88	1.00	0.00	0.08	0.08
2	-149.35	1.00	0.00	0.09	0.09
3	-147.83	1.00	0.00	0.09	0.09
4	-146.30	1.00	0.00	0.09	0.09
5	-144.78	1.00	0.00	0.09	0.09
6	-143.26	1.00	0.00	0.09	0.09
7	-141.73	1.00	0.00	0.10	0.10
8	-140.21	1.00	0.00	0.10	0.10
9	-138.68	1.00	0.00	0.10	0.10
10	-137.16	1.00	0.00	0.10	0.10
11	-135.64	1.00	0.00	0.10	0.10
12	-134.11	1.00	0.00	0.11	0.11
13	-132.59	1.00	0.00	0.11	0.11
14	-131.06	1.00	0.00	0.11	0.11
15	-129.54	1.00	0.00	0.11	0.11
16	-128.02	1.00	0.00	0.12	0.12
17	-126.49	1.00	0.00	0.12	0.12
18	-124.97	1.00	0.00	0.12	0.12
19	-123.44	1.00	0.00	0.13	0.13
20	-121.92	1.00	0.00	0.13	0.13
21	-120.40	1.00	0.00	0.13	0.13
22	-118.87	1.00	0.00	0.14	0.14
23	-117.35	1.00	0.00	0.14	0.14
24	-115.82	1.00	0.00	0.14	0.14
25	-114.30	1.00	0.00	0.15	0.15
26	-112.78	1.00	0.00	0.15	0.15
27	-111.25	1.00	0.00	0.15	0.15
28	-109.73	1.00	0.00	0.16	0.16
29	-108.20	1.00	0.00	0.16	0.16
30	-106.68	1.00	0.00	0.17	0.17
31	-105.16	1.00	0.00	0.17	0.17
32	-103.63	1.00	0.00	0.18	0.18
33	-102.11	1.00	0.00	0.18	0.18
34	-100.58	1.00	0.00	0.19	0.19
35	-99.06	1.00	0.00	0.19	0.19
36	-97.54	1.00	0.00	0.20	0.20
37	-96.01	1.00	0.00	0.21	0.21
38	-94.49	1.00	0.00	0.21	0.21
39	-92.96	1.00	0.00	0.22	0.22
40	-91.44	1.00	0.00	0.23	0.23
41	-89.92	1.00	0.00	0.23	0.23
42	-88.39	1.00	0.00	0.24	0.24
43	-86.87	1.00	0.00	0.25	0.25

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

44	-85.34	1.00	0.00	0.26	0.26
45	-83.82	1.00	0.00	0.27	0.27
46	-82.30	1.00	0.00	0.28	0.28
47	-80.77	1.00	0.00	0.29	0.29
48	-79.25	1.00	0.00	0.30	0.30
49	-77.72	1.00	0.00	0.31	0.31
50	-76.20	1.00	0.00	0.32	0.32
51	-74.68	1.00	0.00	0.34	0.34
52	-73.15	1.00	0.00	0.35	0.35
53	-71.63	1.00	0.00	0.37	0.37
54	-70.10	1.00	0.00	0.38	0.38
55	-68.58	1.00	0.00	0.40	0.40
56	-67.06	1.00	0.00	0.41	0.41
57	-65.53	1.00	0.00	0.43	0.43
58	-64.01	1.00	0.00	0.45	0.45
59	-62.48	1.00	0.00	0.48	0.48
60	-60.96	1.00	0.00	0.50	0.50
61	-59.44	1.00	0.01	0.52	0.52
62	-57.91	1.00	0.01	0.55	0.55
63	-56.39	1.00	0.01	0.58	0.58
64	-54.86	1.00	0.01	0.61	0.61
65	-53.34	1.00	0.01	0.64	0.64
66	-51.82	1.00	0.01	0.68	0.68
67	-50.29	1.00	0.01	0.72	0.72
68	-48.77	1.00	0.01	0.76	0.76
69	-47.24	1.00	0.01	0.81	0.81
70	-45.72	1.00	0.01	0.86	0.86
71	-44.20	1.00	0.01	0.91	0.91
72	-42.67	1.00	0.01	0.98	0.98
73	-41.15	1.00	0.01	1.04	1.04
74	-39.62	1.00	0.02	1.12	1.12
75	-38.10	1.00	0.02	1.20	1.20
76	-36.58	1.00	0.02	1.29	1.29
77	-35.05	1.00	0.02	1.40	1.40
78	-33.53	1.00	0.02	1.51	1.51
79	-32.00	1.00	0.03	1.64	1.64
80	-30.48	1.00	0.03	1.79	1.79
81	-28.96	1.00	0.04	1.95	1.95
82	-27.43	1.00	0.04	2.14	2.14
83	-25.91	1.00	0.05	2.36	2.36
84	-24.38	1.00	0.05	2.61	2.61
85	-22.86	1.00	0.06	2.89	2.89
86	-21.34	1.00	0.07	3.22	3.22
87	-19.81	1.00	0.08	3.61	3.61
88	-18.29	1.00	0.10	4.06	4.06
89	-16.76	1.00	0.12	4.58	4.58
90	-15.24	1.00	0.14	5.20	5.20
91	-13.72	1.00	0.16	5.93	5.93
92	-12.19	1.00	0.19	6.79	6.79
93	-10.67	1.00	0.22	7.79	7.79
94	-9.14	1.00	0.24	8.94	8.94
95	-7.62	1.00	0.27	10.23	10.23
96	-6.10	1.00	0.28	11.63	11.63
97	-4.57	1.00	0.28	13.05	13.05
98	-3.05	1.00	0.23	14.36	14.36
99	-1.52	1.00	0.16	15.38	15.38
100	0.00	1.00	0.05	15.91	15.91
101	1.52	1.00	0.07	15.84	15.84
102	3.05	1.00	0.18	15.20	15.20
103	4.57	1.00	0.25	14.10	14.10
104	6.10	1.00	0.28	12.75	12.76
105	7.62	1.00	0.28	11.32	11.33
106	9.14	1.00	0.27	9.94	9.95
107	10.67	1.00	0.24	8.68	8.68
108	12.19	1.00	0.21	7.56	7.56
109	13.72	1.00	0.18	6.59	6.60
110	15.24	1.00	0.15	5.77	5.77
111	16.76	1.00	0.13	5.06	5.06
112	18.29	1.00	0.11	4.46	4.46
113	19.81	1.00	0.09	3.95	3.95

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

114	21.34	1.00	0.08	3.52	3.52
115	22.86	1.00	0.07	3.15	3.15
116	24.38	1.00	0.06	2.83	2.83
117	25.91	1.00	0.05	2.55	2.55
118	27.43	1.00	0.05	2.31	2.31
119	28.96	1.00	0.04	2.10	2.10
120	30.48	1.00	0.03	1.92	1.92
121	32.00	1.00	0.03	1.76	1.76
122	33.53	1.00	0.03	1.61	1.61
123	35.05	1.00	0.02	1.49	1.49
124	36.58	1.00	0.02	1.37	1.37
125	38.10	1.00	0.02	1.27	1.27
126	39.62	1.00	0.02	1.18	1.18
127	41.15	1.00	0.02	1.10	1.10
128	42.67	1.00	0.01	1.03	1.03
129	44.20	1.00	0.01	0.96	0.96
130	45.72	1.00	0.01	0.90	0.90
131	47.24	1.00	0.01	0.85	0.85
132	48.77	1.00	0.01	0.80	0.80
133	50.29	1.00	0.01	0.75	0.75
134	51.82	1.00	0.01	0.71	0.71
135	53.34	1.00	0.01	0.67	0.67
136	54.86	1.00	0.01	0.64	0.64
137	56.39	1.00	0.01	0.60	0.60
138	57.91	1.00	0.01	0.57	0.57
139	59.44	1.00	0.01	0.54	0.54
140	60.96	1.00	0.01	0.52	0.52
141	62.48	1.00	0.00	0.49	0.49
142	64.01	1.00	0.00	0.47	0.47
143	65.53	1.00	0.00	0.45	0.45
144	67.06	1.00	0.00	0.43	0.43
145	68.58	1.00	0.00	0.41	0.41
146	70.10	1.00	0.00	0.39	0.39
147	71.63	1.00	0.00	0.38	0.38
148	73.15	1.00	0.00	0.36	0.36
149	74.68	1.00	0.00	0.35	0.35
150	76.20	1.00	0.00	0.33	0.33
151	77.72	1.00	0.00	0.32	0.32
152	79.25	1.00	0.00	0.31	0.31
153	80.77	1.00	0.00	0.30	0.30
154	82.30	1.00	0.00	0.29	0.29
155	83.82	1.00	0.00	0.28	0.28
156	85.34	1.00	0.00	0.27	0.27
157	86.87	1.00	0.00	0.26	0.26
158	88.39	1.00	0.00	0.25	0.25
159	89.92	1.00	0.00	0.24	0.24
160	91.44	1.00	0.00	0.23	0.23
161	92.96	1.00	0.00	0.23	0.23
162	94.49	1.00	0.00	0.22	0.22
163	96.01	1.00	0.00	0.21	0.21
164	97.54	1.00	0.00	0.20	0.20
165	99.06	1.00	0.00	0.20	0.20
166	100.58	1.00	0.00	0.19	0.19
167	102.11	1.00	0.00	0.19	0.19
168	103.63	1.00	0.00	0.18	0.18
169	105.16	1.00	0.00	0.18	0.18
170	106.68	1.00	0.00	0.17	0.17
171	108.20	1.00	0.00	0.17	0.17
172	109.73	1.00	0.00	0.16	0.16
173	111.25	1.00	0.00	0.16	0.16
174	112.78	1.00	0.00	0.15	0.15
175	114.30	1.00	0.00	0.15	0.15
176	115.82	1.00	0.00	0.15	0.15
177	117.35	1.00	0.00	0.14	0.14
178	118.87	1.00	0.00	0.14	0.14
179	120.40	1.00	0.00	0.13	0.13
180	121.92	1.00	0.00	0.13	0.13
181	123.44	1.00	0.00	0.13	0.13
182	124.97	1.00	0.00	0.13	0.13
183	126.49	1.00	0.00	0.12	0.12

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

184	128.02	1.00	0.00	0.12	0.12
185	129.54	1.00	0.00	0.12	0.12
186	131.06	1.00	0.00	0.11	0.11
187	132.59	1.00	0.00	0.11	0.11
188	134.11	1.00	0.00	0.11	0.11
189	135.64	1.00	0.00	0.11	0.11
190	137.16	1.00	0.00	0.10	0.10
191	138.68	1.00	0.00	0.10	0.10
192	140.21	1.00	0.00	0.10	0.10
193	141.73	1.00	0.00	0.10	0.10
194	143.26	1.00	0.00	0.10	0.10
195	144.78	1.00	0.00	0.09	0.09
196	146.30	1.00	0.00	0.09	0.09
197	147.83	1.00	0.00	0.09	0.09
198	149.35	1.00	0.00	0.09	0.09
199	150.88	1.00	0.00	0.09	0.09
200	152.40	1.00	0.00	0.08	0.08

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

ROW CALC 6 - Typical Proposed 34kV Underground Collection (4) Circuits
Magnetic Field

---- List of Conductors ----

Conductor ID#	Phase (A)	Horizontal Angle (degree)	Height above Ground Coordinate X(m)	Coordinate H(m)
1	528.50	-120	-0.30	-1.00
2	528.50	0.0	0.00	-1.00
3	528.50	120.0	0.30	-1.00
4	528.50	-120	-2.70	-1.00
5	528.50	0.0	-2.40	-1.00
6	528.50	120.0	-2.10	-1.00
7	528.50	120.0	-1.50	-1.00
8	528.50	0.0	-1.20	-1.00
9	528.50	-120	-0.90	-1.00
10	528.50	120.0	0.90	-1.00
11	528.50	0.0	1.20	-1.00
12	528.50	-120	1.50	-1.00

Magnetic Field are calculated at 200 points uniformly distributed along a straight line that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

Results -----

Calculation Point(#)	X(m)	H(m)	--- Magnetic Field ---		
			Bmin (mG)	Bmax (mG)	Bresultant (mG)
0	-152.40	1.00	0.00	0.00	0.00
1	-150.88	1.00	0.00	0.00	0.00
2	-149.35	1.00	0.00	0.00	0.00
3	-147.83	1.00	0.00	0.00	0.00
4	-146.30	1.00	0.00	0.00	0.00
5	-144.78	1.00	0.00	0.00	0.00
6	-143.26	1.00	0.00	0.00	0.00
7	-141.73	1.00	0.00	0.00	0.00
8	-140.21	1.00	0.00	0.00	0.00
9	-138.68	1.00	0.00	0.00	0.00
10	-137.16	1.00	0.00	0.00	0.00
11	-135.64	1.00	0.00	0.00	0.00
12	-134.11	1.00	0.00	0.00	0.00
13	-132.59	1.00	0.00	0.00	0.00
14	-131.06	1.00	0.00	0.00	0.00
15	-129.54	1.00	0.00	0.00	0.00
16	-128.02	1.00	0.00	0.00	0.00
17	-126.49	1.00	0.00	0.00	0.00
18	-124.97	1.00	0.00	0.00	0.00
19	-123.44	1.00	0.00	0.00	0.00
20	-121.92	1.00	0.00	0.00	0.00
21	-120.40	1.00	0.00	0.00	0.00
22	-118.87	1.00	0.00	0.00	0.00
23	-117.35	1.00	0.00	0.00	0.00
24	-115.82	1.00	0.00	0.00	0.00
25	-114.30	1.00	0.00	0.00	0.00
26	-112.78	1.00	0.00	0.00	0.00
27	-111.25	1.00	0.00	0.00	0.00
28	-109.73	1.00	0.00	0.00	0.00
29	-108.20	1.00	0.00	0.00	0.00
30	-106.68	1.00	0.00	0.00	0.00
31	-105.16	1.00	0.00	0.00	0.00
32	-103.63	1.00	0.00	0.00	0.00
33	-102.11	1.00	0.00	0.00	0.00
34	-100.58	1.00	0.00	0.00	0.00
35	-99.06	1.00	0.00	0.00	0.00

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

36	-97.54	1.00	0.00	0.00	0.00
37	-96.01	1.00	0.00	0.00	0.00
38	-94.49	1.00	0.00	0.00	0.00
39	-92.96	1.00	0.00	0.00	0.00
40	-91.44	1.00	0.00	0.00	0.00
41	-89.92	1.00	0.00	0.00	0.00
42	-88.39	1.00	0.00	0.00	0.00
43	-86.87	1.00	0.00	0.00	0.00
44	-85.34	1.00	0.00	0.00	0.00
45	-83.82	1.00	0.00	0.00	0.00
46	-82.30	1.00	0.00	0.00	0.00
47	-80.77	1.00	0.00	0.01	0.01
48	-79.25	1.00	0.00	0.01	0.01
49	-77.72	1.00	0.00	0.01	0.01
50	-76.20	1.00	0.00	0.01	0.01
51	-74.68	1.00	0.00	0.01	0.01
52	-73.15	1.00	0.00	0.01	0.01
53	-71.63	1.00	0.00	0.01	0.01
54	-70.10	1.00	0.00	0.01	0.01
55	-68.58	1.00	0.00	0.01	0.01
56	-67.06	1.00	0.00	0.01	0.01
57	-65.53	1.00	0.00	0.01	0.01
58	-64.01	1.00	0.00	0.01	0.01
59	-62.48	1.00	0.00	0.01	0.01
60	-60.96	1.00	0.00	0.01	0.01
61	-59.44	1.00	0.00	0.01	0.01
62	-57.91	1.00	0.00	0.01	0.01
63	-56.39	1.00	0.00	0.02	0.02
64	-54.86	1.00	0.00	0.02	0.02
65	-53.34	1.00	0.00	0.02	0.02
66	-51.82	1.00	0.00	0.02	0.02
67	-50.29	1.00	0.00	0.02	0.02
68	-48.77	1.00	0.00	0.02	0.02
69	-47.24	1.00	0.00	0.03	0.03
70	-45.72	1.00	0.00	0.03	0.03
71	-44.20	1.00	0.00	0.03	0.03
72	-42.67	1.00	0.00	0.04	0.04
73	-41.15	1.00	0.00	0.04	0.04
74	-39.62	1.00	0.00	0.04	0.04
75	-38.10	1.00	0.00	0.05	0.05
76	-36.58	1.00	0.00	0.06	0.06
77	-35.05	1.00	0.00	0.07	0.07
78	-33.53	1.00	0.00	0.07	0.07
79	-32.00	1.00	0.00	0.09	0.09
80	-30.48	1.00	0.00	0.10	0.10
81	-28.96	1.00	0.00	0.12	0.12
82	-27.43	1.00	0.00	0.14	0.14
83	-25.91	1.00	0.00	0.17	0.17
84	-24.38	1.00	0.00	0.20	0.20
85	-22.86	1.00	0.00	0.24	0.24
86	-21.34	1.00	0.00	0.30	0.30
87	-19.81	1.00	0.00	0.38	0.38
88	-18.29	1.00	0.00	0.49	0.49
89	-16.76	1.00	0.00	0.64	0.64
90	-15.24	1.00	0.00	0.86	0.86
91	-13.72	1.00	0.00	1.20	1.20
92	-12.19	1.00	0.00	1.75	1.75
93	-10.67	1.00	0.00	2.68	2.68
94	-9.14	1.00	0.01	4.41	4.41
95	-7.62	1.00	0.02	7.99	7.99
96	-6.10	1.00	0.10	16.50	16.50
97	-4.57	1.00	0.56	39.98	39.98
98	-3.05	1.00	2.30	94.75	94.78
99	-1.52	1.00	3.79	86.84	86.92
100	0.00	1.00	5.12	62.47	62.68
101	1.52	1.00	2.18	105.56	105.58
102	3.05	1.00	0.82	48.93	48.93
103	4.57	1.00	0.14	19.66	19.66
104	6.10	1.00	0.03	9.20	9.20
105	7.62	1.00	0.01	4.96	4.96

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

106	9.14	1.00	0.00	2.96	2.96
107	10.67	1.00	0.00	1.90	1.90
108	12.19	1.00	0.00	1.30	1.30
109	13.72	1.00	0.00	0.92	0.92
110	15.24	1.00	0.00	0.68	0.68
111	16.76	1.00	0.00	0.51	0.51
112	18.29	1.00	0.00	0.40	0.40
113	19.81	1.00	0.00	0.32	0.32
114	21.34	1.00	0.00	0.25	0.25
115	22.86	1.00	0.00	0.21	0.21
116	24.38	1.00	0.00	0.17	0.17
117	25.91	1.00	0.00	0.14	0.14
118	27.43	1.00	0.00	0.12	0.12
119	28.96	1.00	0.00	0.10	0.10
120	30.48	1.00	0.00	0.09	0.09
121	32.00	1.00	0.00	0.08	0.08
122	33.53	1.00	0.00	0.07	0.07
123	35.05	1.00	0.00	0.06	0.06
124	36.58	1.00	0.00	0.05	0.05
125	38.10	1.00	0.00	0.05	0.05
126	39.62	1.00	0.00	0.04	0.04
127	41.15	1.00	0.00	0.04	0.04
128	42.67	1.00	0.00	0.03	0.03
129	44.20	1.00	0.00	0.03	0.03
130	45.72	1.00	0.00	0.03	0.03
131	47.24	1.00	0.00	0.02	0.02
132	48.77	1.00	0.00	0.02	0.02
133	50.29	1.00	0.00	0.02	0.02
134	51.82	1.00	0.00	0.02	0.02
135	53.34	1.00	0.00	0.02	0.02
136	54.86	1.00	0.00	0.02	0.02
137	56.39	1.00	0.00	0.01	0.01
138	57.91	1.00	0.00	0.01	0.01
139	59.44	1.00	0.00	0.01	0.01
140	60.96	1.00	0.00	0.01	0.01
141	62.48	1.00	0.00	0.01	0.01
142	64.01	1.00	0.00	0.01	0.01
143	65.53	1.00	0.00	0.01	0.01
144	67.06	1.00	0.00	0.01	0.01
145	68.58	1.00	0.00	0.01	0.01
146	70.10	1.00	0.00	0.01	0.01
147	71.63	1.00	0.00	0.01	0.01
148	73.15	1.00	0.00	0.01	0.01
149	74.68	1.00	0.00	0.01	0.01
150	76.20	1.00	0.00	0.01	0.01
151	77.72	1.00	0.00	0.01	0.01
152	79.25	1.00	0.00	0.01	0.01
153	80.77	1.00	0.00	0.00	0.00
154	82.30	1.00	0.00	0.00	0.00
155	83.82	1.00	0.00	0.00	0.00
156	85.34	1.00	0.00	0.00	0.00
157	86.87	1.00	0.00	0.00	0.00
158	88.39	1.00	0.00	0.00	0.00
159	89.92	1.00	0.00	0.00	0.00
160	91.44	1.00	0.00	0.00	0.00
161	92.96	1.00	0.00	0.00	0.00
162	94.49	1.00	0.00	0.00	0.00
163	96.01	1.00	0.00	0.00	0.00
164	97.54	1.00	0.00	0.00	0.00
165	99.06	1.00	0.00	0.00	0.00
166	100.58	1.00	0.00	0.00	0.00
167	102.11	1.00	0.00	0.00	0.00
168	103.63	1.00	0.00	0.00	0.00
169	105.16	1.00	0.00	0.00	0.00
170	106.68	1.00	0.00	0.00	0.00
171	108.20	1.00	0.00	0.00	0.00
172	109.73	1.00	0.00	0.00	0.00
173	111.25	1.00	0.00	0.00	0.00
174	112.78	1.00	0.00	0.00	0.00
175	114.30	1.00	0.00	0.00	0.00

Project Title	Cassadaga Wind Farm EMF
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176	115.82	1.00	0.00	0.00	0.00
177	117.35	1.00	0.00	0.00	0.00
178	118.87	1.00	0.00	0.00	0.00
179	120.40	1.00	0.00	0.00	0.00
180	121.92	1.00	0.00	0.00	0.00
181	123.44	1.00	0.00	0.00	0.00
182	124.97	1.00	0.00	0.00	0.00
183	126.49	1.00	0.00	0.00	0.00
184	128.02	1.00	0.00	0.00	0.00
185	129.54	1.00	0.00	0.00	0.00
186	131.06	1.00	0.00	0.00	0.00
187	132.59	1.00	0.00	0.00	0.00
188	134.11	1.00	0.00	0.00	0.00
189	135.64	1.00	0.00	0.00	0.00
190	137.16	1.00	0.00	0.00	0.00
191	138.68	1.00	0.00	0.00	0.00
192	140.21	1.00	0.00	0.00	0.00
193	141.73	1.00	0.00	0.00	0.00
194	143.26	1.00	0.00	0.00	0.00
195	144.78	1.00	0.00	0.00	0.00
196	146.30	1.00	0.00	0.00	0.00
197	147.83	1.00	0.00	0.00	0.00
198	149.35	1.00	0.00	0.00	0.00
199	150.88	1.00	0.00	0.00	0.00
200	152.40	1.00	0.00	0.00	0.00

Project Title	Cassadaga Wind Farm EMF
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**ROW CALC 7 - Typical Proposed Tri 34kV Collection Structure with Existing Distribution
Electric Field**

---- List of Conductors ----

ID#	Diameter (cm)	Phase Voltage (kV)	Horizontal Angle (degree)	Height above Ground (m)	Coordinate X(m)
4A	2.81	19.92	0.0	13.18	0.6
4B	2.81	19.92	-120.0	12.12	-0.6
4C	2.81	19.92	120.0	11.05	0.6
5A	2.81	19.92	0.0	13.18	4.56
5B	2.81	19.92	-120.0	12.12	3.36
5C	2.81	19.92	120.0	11.05	4.56
6A	2.81	19.92	0.0	13.18	8.52
6B	2.81	19.92	-120.0	12.12	7.32
6C	2.81	19.92	120.0	11.05	8.52
7A	1.00	19.92	0.0	9.14	29.78
7B	1.00	19.92	-120.0	9.14	30.78
7C	1.00	19.92	120.0	9.14	31.78
1A	0.98	0.00	0.0	15.24	0.0
1B	0.98	0.00	0.0	15.24	3.96
1C	0.98	0.00	0.0	15.24	7.92

Electric Field and Space Potential are calculated at 200 points uniformly distributed along a straightline that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

---- Results ----

Point	X(m)	H(m)	E(V/m)	Vsp(V)
0	-152.40	1.00	0.66	0.66
1	-150.88	1.00	0.67	0.67
2	-149.35	1.00	0.69	0.69
3	-147.83	1.00	0.70	0.70
4	-146.30	1.00	0.71	0.71
5	-144.78	1.00	0.73	0.73
6	-143.26	1.00	0.74	0.74
7	-141.73	1.00	0.76	0.76
8	-140.21	1.00	0.77	0.77
9	-138.68	1.00	0.79	0.79
10	-137.16	1.00	0.80	0.80
11	-135.64	1.00	0.82	0.82
12	-134.11	1.00	0.84	0.84
13	-132.59	1.00	0.86	0.86
14	-131.06	1.00	0.88	0.88
15	-129.54	1.00	0.90	0.90
16	-128.02	1.00	0.92	0.92
17	-126.49	1.00	0.94	0.94
18	-124.97	1.00	0.96	0.96
19	-123.44	1.00	0.98	0.98
20	-121.92	1.00	1.00	1.00
21	-120.40	1.00	1.02	1.02
22	-118.87	1.00	1.05	1.05
23	-117.35	1.00	1.07	1.07
24	-115.82	1.00	1.10	1.10
25	-114.30	1.00	1.13	1.13
26	-112.78	1.00	1.16	1.16
27	-111.25	1.00	1.18	1.18
28	-109.73	1.00	1.22	1.22
29	-108.20	1.00	1.25	1.25
30	-106.68	1.00	1.28	1.28
31	-105.16	1.00	1.31	1.31

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32	-103.63	1.00	1.35	1.35
33	-102.11	1.00	1.38	1.38
34	-100.58	1.00	1.42	1.42
35	-99.06	1.00	1.46	1.46
36	-97.54	1.00	1.50	1.50
37	-96.01	1.00	1.55	1.55
38	-94.49	1.00	1.59	1.59
39	-92.96	1.00	1.64	1.64
40	-91.44	1.00	1.69	1.69
41	-89.92	1.00	1.74	1.74
42	-88.39	1.00	1.79	1.79
43	-86.87	1.00	1.85	1.85
44	-85.34	1.00	1.91	1.91
45	-83.82	1.00	1.97	1.97
46	-82.30	1.00	2.03	2.03
47	-80.77	1.00	2.10	2.10
48	-79.25	1.00	2.17	2.17
49	-77.72	1.00	2.25	2.25
50	-76.20	1.00	2.33	2.33
51	-74.68	1.00	2.41	2.41
52	-73.15	1.00	2.50	2.50
53	-71.63	1.00	2.59	2.59
54	-70.10	1.00	2.69	2.68
55	-68.58	1.00	2.79	2.79
56	-67.06	1.00	2.90	2.90
57	-65.53	1.00	3.01	3.01
58	-64.01	1.00	3.13	3.13
59	-62.48	1.00	3.26	3.26
60	-60.96	1.00	3.40	3.40
61	-59.44	1.00	3.54	3.54
62	-57.91	1.00	3.70	3.70
63	-56.39	1.00	3.86	3.86
64	-54.86	1.00	4.04	4.04
65	-53.34	1.00	4.23	4.23
66	-51.82	1.00	4.43	4.43
67	-50.29	1.00	4.65	4.65
68	-48.77	1.00	4.89	4.88
69	-47.24	1.00	5.14	5.14
70	-45.72	1.00	5.41	5.41
71	-44.20	1.00	5.71	5.71
72	-42.67	1.00	6.03	6.03
73	-41.15	1.00	6.38	6.38
74	-39.62	1.00	6.76	6.76
75	-38.10	1.00	7.19	7.18
76	-36.58	1.00	7.65	7.65
77	-35.05	1.00	8.17	8.16
78	-33.53	1.00	8.75	8.74
79	-32.00	1.00	9.40	9.39
80	-30.48	1.00	10.14	10.13
81	-28.96	1.00	10.98	10.97
82	-27.43	1.00	11.96	11.95
83	-25.91	1.00	13.11	13.09
84	-24.38	1.00	14.48	14.44
85	-22.86	1.00	16.12	16.08
86	-21.34	1.00	18.13	18.07
87	-19.81	1.00	20.61	20.53
88	-18.29	1.00	23.73	23.62
89	-16.76	1.00	27.70	27.55
90	-15.24	1.00	32.80	32.59
91	-13.72	1.00	39.41	39.12
92	-12.19	1.00	48.04	47.64
93	-10.67	1.00	59.32	58.76
94	-9.14	1.00	74.05	73.28
95	-7.62	1.00	93.15	92.10
96	-6.10	1.00	117.52	116.12
97	-4.57	1.00	147.63	145.84
98	-3.05	1.00	182.96	180.77
99	-1.52	1.00	221.30	218.81
100	0.00	1.00	258.74	256.10
101	1.52	1.00	290.58	287.94

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	Output Data

102	3.05	1.00	312.70	310.14
103	4.57	1.00	322.43	319.92
104	6.10	1.00	318.65	316.10
105	7.62	1.00	301.69	299.06
106	9.14	1.00	273.41	270.71
107	10.67	1.00	237.25	234.58
108	12.19	1.00	197.85	195.30
109	13.72	1.00	159.99	157.60
110	15.24	1.00	127.53	125.28
111	16.76	1.00	103.09	100.97
112	18.29	1.00	88.29	86.36
113	19.81	1.00	83.47	81.84
114	21.34	1.00	86.95	85.63
115	22.86	1.00	95.19	94.03
116	24.38	1.00	103.62	102.35
117	25.91	1.00	106.72	104.95
118	27.43	1.00	98.72	95.89
119	28.96	1.00	77.89	72.97
120	30.48	1.00	56.77	48.77
121	32.00	1.00	62.63	55.95
122	33.53	1.00	83.43	79.65
123	35.05	1.00	95.31	93.14
124	36.58	1.00	94.71	93.43
125	38.10	1.00	85.98	85.20
126	39.62	1.00	73.94	73.45
127	41.15	1.00	61.69	61.39
128	42.67	1.00	50.72	50.52
129	44.20	1.00	41.48	41.34
130	45.72	1.00	33.94	33.85
131	47.24	1.00	27.90	27.83
132	48.77	1.00	23.09	23.04
133	50.29	1.00	19.27	19.22
134	51.82	1.00	16.22	16.19
135	53.34	1.00	13.79	13.77
136	54.86	1.00	11.84	11.82
137	56.39	1.00	10.27	10.25
138	57.91	1.00	8.99	8.98
139	59.44	1.00	7.95	7.94
140	60.96	1.00	7.10	7.09
141	62.48	1.00	6.39	6.39
142	64.01	1.00	5.80	5.80
143	65.53	1.00	5.31	5.30
144	67.06	1.00	4.89	4.89
145	68.58	1.00	4.53	4.53
146	70.10	1.00	4.22	4.22
147	71.63	1.00	3.95	3.95
148	73.15	1.00	3.72	3.72
149	74.68	1.00	3.51	3.51
150	76.20	1.00	3.32	3.32
151	77.72	1.00	3.16	3.16
152	79.25	1.00	3.01	3.01
153	80.77	1.00	2.87	2.87
154	82.30	1.00	2.75	2.75
155	83.82	1.00	2.63	2.63
156	85.34	1.00	2.52	2.52
157	86.87	1.00	2.43	2.43
158	88.39	1.00	2.33	2.33
159	89.92	1.00	2.25	2.25
160	91.44	1.00	2.17	2.17
161	92.96	1.00	2.09	2.09
162	94.49	1.00	2.02	2.02
163	96.01	1.00	1.96	1.96
164	97.54	1.00	1.89	1.89
165	99.06	1.00	1.83	1.83
166	100.58	1.00	1.78	1.78
167	102.11	1.00	1.72	1.72
168	103.63	1.00	1.67	1.67
169	105.16	1.00	1.62	1.62
170	106.68	1.00	1.57	1.57
171	108.20	1.00	1.53	1.53

Project Title	Cassadaga Wind Farm EMF
Calculation Title	Electric and Magnetic Field Study
	Output Data

172	109.73	1.00	1.49	1.49
173	111.25	1.00	1.44	1.44
174	112.78	1.00	1.41	1.41
175	114.30	1.00	1.37	1.37
176	115.82	1.00	1.33	1.33
177	117.35	1.00	1.30	1.30
178	118.87	1.00	1.26	1.26
179	120.40	1.00	1.23	1.23
180	121.92	1.00	1.20	1.20
181	123.44	1.00	1.17	1.17
182	124.97	1.00	1.14	1.14
183	126.49	1.00	1.11	1.11
184	128.02	1.00	1.09	1.09
185	129.54	1.00	1.06	1.06
186	131.06	1.00	1.04	1.04
187	132.59	1.00	1.01	1.01
188	134.11	1.00	0.99	0.99
189	135.64	1.00	0.97	0.97
190	137.16	1.00	0.95	0.95
191	138.68	1.00	0.93	0.93
192	140.21	1.00	0.91	0.91
193	141.73	1.00	0.89	0.89
194	143.26	1.00	0.87	0.87
195	144.78	1.00	0.85	0.85
196	146.30	1.00	0.83	0.83
197	147.83	1.00	0.81	0.81
198	149.35	1.00	0.80	0.80
199	150.88	1.00	0.78	0.78
200	152.40	1.00	0.77	0.77

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**ROW CALC 7 - Typical Proposed Tri 34kV Collection Structure with Existing Distribution
Magnetic Field**

---- List of Conductors ----

Conductor ID#	Current (A)	Phase Angle (degree)	Horizontal Coordinate X(m)	Height above Ground H(m)
1	0.00	0.0	0.00	15.24
2	0.00	0.0	3.96	15.24
3	0.00	0.0	7.92	15.25
4	528.00	0.0	0.60	13.18
5	528.00	-120	-0.60	12.12
6	528.00	120.0	0.60	11.05
7	528.00	0.0	4.56	13.18
8	528.00	-120	3.36	12.12
9	528.00	120.0	4.56	11.05
10	528.00	0.0	8.52	13.18
11	528.00	-120	7.32	12.12
12	528.00	120.0	8.52	11.05
13	528.00	0.0	29.78	9.14
14	528.00	-120	30.78	9.14
15	528.00	120.0	31.78	9.14

Magnetic Field are calculated at 200 points uniformly distributed along a straight line that starts at X = -152.4(m) and H = 1.0(m) and ends at X = 152.4(m) and H = 1.0(m).

Results -----

Calculation Point(#)	--- Magnetic Field ---				
	X(m)	H(m)	Bmin (mG)	Bmax (mG)	Bresultant (mG)
0	-152.40	1.00	0.15	0.24	0.29
1	-150.88	1.00	0.15	0.25	0.29
2	-149.35	1.00	0.15	0.25	0.30
3	-147.83	1.00	0.16	0.26	0.30
4	-146.30	1.00	0.16	0.26	0.31
5	-144.78	1.00	0.16	0.27	0.32
6	-143.26	1.00	0.17	0.27	0.32
7	-141.73	1.00	0.17	0.28	0.33
8	-140.21	1.00	0.18	0.29	0.34
9	-138.68	1.00	0.18	0.29	0.34
10	-137.16	1.00	0.18	0.30	0.35
11	-135.64	1.00	0.19	0.30	0.36
12	-134.11	1.00	0.19	0.31	0.37
13	-132.59	1.00	0.20	0.32	0.37
14	-131.06	1.00	0.20	0.32	0.38
15	-129.54	1.00	0.20	0.33	0.39
16	-128.02	1.00	0.21	0.34	0.40
17	-126.49	1.00	0.21	0.35	0.41
18	-124.97	1.00	0.22	0.36	0.42
19	-123.44	1.00	0.22	0.36	0.43
20	-121.92	1.00	0.23	0.37	0.44
21	-120.40	1.00	0.24	0.38	0.45
22	-118.87	1.00	0.24	0.39	0.46
23	-117.35	1.00	0.25	0.40	0.47
24	-115.82	1.00	0.25	0.41	0.48
25	-114.30	1.00	0.26	0.42	0.49
26	-112.78	1.00	0.27	0.43	0.51
27	-111.25	1.00	0.28	0.44	0.52
28	-109.73	1.00	0.28	0.45	0.53
29	-108.20	1.00	0.29	0.47	0.55
30	-106.68	1.00	0.30	0.48	0.56
31	-105.16	1.00	0.31	0.49	0.58
32	-103.63	1.00	0.32	0.50	0.60

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33	-102.11	1.00	0.33	0.52	0.61
34	-100.58	1.00	0.33	0.53	0.63
35	-99.06	1.00	0.34	0.55	0.65
36	-97.54	1.00	0.36	0.57	0.67
37	-96.01	1.00	0.37	0.58	0.69
38	-94.49	1.00	0.38	0.60	0.71
39	-92.96	1.00	0.39	0.62	0.73
40	-91.44	1.00	0.40	0.64	0.75
41	-89.92	1.00	0.42	0.66	0.78
42	-88.39	1.00	0.43	0.68	0.80
43	-86.87	1.00	0.44	0.70	0.83
44	-85.34	1.00	0.46	0.72	0.86
45	-83.82	1.00	0.48	0.75	0.89
46	-82.30	1.00	0.49	0.77	0.92
47	-80.77	1.00	0.51	0.80	0.95
48	-79.25	1.00	0.53	0.83	0.98
49	-77.72	1.00	0.55	0.86	1.02
50	-76.20	1.00	0.57	0.89	1.06
51	-74.68	1.00	0.59	0.92	1.10
52	-73.15	1.00	0.62	0.96	1.14
53	-71.63	1.00	0.64	1.00	1.18
54	-70.10	1.00	0.67	1.04	1.23
55	-68.58	1.00	0.70	1.08	1.28
56	-67.06	1.00	0.73	1.12	1.34
57	-65.53	1.00	0.76	1.17	1.39
58	-64.01	1.00	0.79	1.22	1.45
59	-62.48	1.00	0.83	1.27	1.52
60	-60.96	1.00	0.87	1.33	1.59
61	-59.44	1.00	0.91	1.39	1.66
62	-57.91	1.00	0.96	1.46	1.74
63	-56.39	1.00	1.01	1.53	1.83
64	-54.86	1.00	1.06	1.60	1.92
65	-53.34	1.00	1.11	1.68	2.02
66	-51.82	1.00	1.17	1.77	2.13
67	-50.29	1.00	1.24	1.87	2.24
68	-48.77	1.00	1.31	1.97	2.37
69	-47.24	1.00	1.39	2.08	2.50
70	-45.72	1.00	1.47	2.20	2.65
71	-44.20	1.00	1.57	2.33	2.81
72	-42.67	1.00	1.67	2.47	2.98
73	-41.15	1.00	1.78	2.63	3.18
74	-39.62	1.00	1.90	2.80	3.39
75	-38.10	1.00	2.04	2.99	3.62
76	-36.58	1.00	2.19	3.20	3.88
77	-35.05	1.00	2.35	3.43	4.16
78	-33.53	1.00	2.54	3.69	4.48
79	-32.00	1.00	2.75	3.97	4.83
80	-30.48	1.00	2.98	4.29	5.22
81	-28.96	1.00	3.24	4.65	5.67
82	-27.43	1.00	3.54	5.05	6.17
83	-25.91	1.00	3.87	5.51	6.74
84	-24.38	1.00	4.25	6.03	7.38
85	-22.86	1.00	4.69	6.62	8.12
86	-21.34	1.00	5.20	7.30	8.96
87	-19.81	1.00	5.78	8.08	9.93
88	-18.29	1.00	6.45	8.98	11.05
89	-16.76	1.00	7.23	10.02	12.35
90	-15.24	1.00	8.13	11.23	13.86
91	-13.72	1.00	9.18	12.64	15.62
92	-12.19	1.00	10.39	14.27	17.65
93	-10.67	1.00	11.77	16.16	19.99
94	-9.14	1.00	13.33	18.32	22.66
95	-7.62	1.00	15.05	20.75	25.64
96	-6.10	1.00	16.88	23.41	28.86
97	-4.57	1.00	18.73	26.19	32.20
98	-3.05	1.00	20.47	28.94	35.45
99	-1.52	1.00	21.97	31.44	38.36
100	0.00	1.00	23.13	33.51	40.72
101	1.52	1.00	23.91	35.04	42.42
102	3.05	1.00	24.30	36.02	43.45

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103	4.57	1.00	24.29	36.47	43.82
104	6.10	1.00	23.88	36.42	43.55
105	7.62	1.00	23.07	35.86	42.64
106	9.14	1.00	21.85	34.80	41.10
107	10.67	1.00	20.29	33.28	38.97
108	12.19	1.00	18.48	31.41	36.45
109	13.72	1.00	16.59	29.40	33.76
110	15.24	1.00	14.72	27.46	31.15
111	16.76	1.00	12.96	25.76	28.84
112	18.29	1.00	11.35	24.43	26.93
113	19.81	1.00	9.88	23.53	25.52
114	21.34	1.00	8.53	23.10	24.62
115	22.86	1.00	7.23	23.10	24.20
116	24.38	1.00	5.91	23.45	24.18
117	25.91	1.00	4.51	23.95	24.37
118	27.43	1.00	2.96	24.28	24.46
119	28.96	1.00	1.32	24.02	24.06
120	30.48	1.00	0.25	22.89	22.89
121	32.00	1.00	1.47	20.91	20.96
122	33.53	1.00	2.13	18.43	18.55
123	35.05	1.00	2.22	15.90	16.05
124	36.58	1.00	1.92	13.61	13.74
125	38.10	1.00	1.45	11.67	11.76
126	39.62	1.00	0.96	10.07	10.11
127	41.15	1.00	0.53	8.76	8.77
128	42.67	1.00	0.18	7.68	7.69
129	44.20	1.00	0.08	6.80	6.80
130	45.72	1.00	0.28	6.06	6.07
131	47.24	1.00	0.42	5.44	5.46
132	48.77	1.00	0.53	4.92	4.95
133	50.29	1.00	0.60	4.47	4.51
134	51.82	1.00	0.65	4.08	4.13
135	53.34	1.00	0.67	3.75	3.81
136	54.86	1.00	0.69	3.45	3.52
137	56.39	1.00	0.70	3.19	3.27
138	57.91	1.00	0.70	2.96	3.05
139	59.44	1.00	0.69	2.76	2.85
140	60.96	1.00	0.68	2.58	2.67
141	62.48	1.00	0.67	2.41	2.51
142	64.01	1.00	0.66	2.27	2.36
143	65.53	1.00	0.64	2.13	2.23
144	67.06	1.00	0.63	2.01	2.10
145	68.58	1.00	0.61	1.90	1.99
146	70.10	1.00	0.59	1.80	1.89
147	71.63	1.00	0.58	1.70	1.80
148	73.15	1.00	0.56	1.62	1.71
149	74.68	1.00	0.54	1.54	1.63
150	76.20	1.00	0.53	1.46	1.55
151	77.72	1.00	0.51	1.39	1.48
152	79.25	1.00	0.50	1.33	1.42
153	80.77	1.00	0.48	1.27	1.36
154	82.30	1.00	0.47	1.22	1.30
155	83.82	1.00	0.45	1.16	1.25
156	85.34	1.00	0.44	1.12	1.20
157	86.87	1.00	0.43	1.07	1.15
158	88.39	1.00	0.41	1.03	1.11
159	89.92	1.00	0.40	0.99	1.07
160	91.44	1.00	0.39	0.95	1.03
161	92.96	1.00	0.38	0.91	0.99
162	94.49	1.00	0.37	0.88	0.95
163	96.01	1.00	0.36	0.85	0.92
164	97.54	1.00	0.35	0.82	0.89
165	99.06	1.00	0.34	0.79	0.86
166	100.58	1.00	0.33	0.76	0.83
167	102.11	1.00	0.32	0.74	0.80
168	103.63	1.00	0.31	0.71	0.78
169	105.16	1.00	0.30	0.69	0.75
170	106.68	1.00	0.30	0.67	0.73
171	108.20	1.00	0.29	0.65	0.71
172	109.73	1.00	0.28	0.63	0.69

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173	111.25	1.00	0.27	0.61	0.67
174	112.78	1.00	0.27	0.59	0.65
175	114.30	1.00	0.26	0.57	0.63
176	115.82	1.00	0.25	0.56	0.61
177	117.35	1.00	0.25	0.54	0.60
178	118.87	1.00	0.24	0.53	0.58
179	120.40	1.00	0.24	0.51	0.56
180	121.92	1.00	0.23	0.50	0.55
181	123.44	1.00	0.22	0.48	0.53
182	124.97	1.00	0.22	0.47	0.52
183	126.49	1.00	0.21	0.46	0.51
184	128.02	1.00	0.21	0.45	0.49
185	129.54	1.00	0.20	0.44	0.48
186	131.06	1.00	0.20	0.42	0.47
187	132.59	1.00	0.20	0.41	0.46
188	134.11	1.00	0.19	0.40	0.45
189	135.64	1.00	0.19	0.39	0.44
190	137.16	1.00	0.18	0.39	0.43
191	138.68	1.00	0.18	0.38	0.42
192	140.21	1.00	0.18	0.37	0.41
193	141.73	1.00	0.17	0.36	0.40
194	143.26	1.00	0.17	0.35	0.39
195	144.78	1.00	0.17	0.34	0.38
196	146.30	1.00	0.16	0.33	0.37
197	147.83	1.00	0.16	0.33	0.36
198	149.35	1.00	0.16	0.32	0.36
199	150.88	1.00	0.15	0.31	0.35
200	152.40	1.00	0.15	0.31	0.34