

Exhibit EE4
NEW Sweetwater Florida Proposed Nighttime Antenna System

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Input Parameters:

Field Ratio	Phasing	Spacing	Orient	Tow Ref Switch	Height	TL/Sec	A	B	C	D	Z sub 0
1.0000	.000	.000	.000	0	90.0	0	.0	.0	.0	.0	.00
.4800	36.000	198.000	329.500	0	90.0	0	.0	.0	.0	.0	.00
.5600	-53.000	193.000	148.500	0	90.0	0	.0	.0	.0	.0	.00
.9500	-102.000	90.000	60.000	0	90.0	0	.0	.0	.0	.0	.00
.5300	-83.000	228.000	353.200	0	90.0	0	.0	.0	.0	.0	.00
.4800	-101.000	240.000	127.000	0	90.0	0	.0	.0	.0	.0	.00

Total RMS (small)= 1.1050; Computed (no-loss) K= 271.3934

No Loss RMS = 358.91 mV/m at one KILOMETER

No Loss RMS (for 1 kW) = 293.05 mV/m at one KILOMETER

Adjusted K = 266.0721 Big RMS = 351.87 mV/m at one KILOMETER

Big RMS (adjusted for 1 kW) = 287.30 mV/m at one KILOMETER

STANDARD RADIATION PATTERN

(mV/m at one kilometer)
elevation angle θ

Azimuth 0.00 5.00 10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

.00	26.88	27.08	28.53	32.30	37.33	40.68	39.26	31.07	17.36	19.62	45.85	75.61	101.81
5.00	34.46	35.25	37.33	39.73	40.75	38.37	30.91	18.73	16.60	39.21	68.29	96.81	119.79
10.00	40.60	40.52	39.97	38.08	33.63	25.68	15.79	19.36	41.02	68.58	97.10	122.51	140.73
15.00	29.28	28.37	25.53	20.72	15.56	17.99	32.66	54.46	80.18	107.20	132.49	152.69	164.51
20.00	22.70	23.96	28.13	36.02	48.16	64.59	84.83	107.86	132.01	155.05	174.33	187.08	190.80
25.00	91.52	93.51	99.44	109.24	122.64	139.12	157.78	177.29	195.91	211.54	221.97	225.06	219.08
30.00	198.60	200.33	205.42	213.56	224.17	236.42	249.17	261.00	270.27	275.22	274.15	265.63	248.65
35.00	336.03	336.93	339.50	343.37	347.88	352.16	355.14	355.57	352.17	343.69	329.04	307.46	278.61
40.00	494.28	493.89	492.60	490.09	485.87	479.26	469.51	455.82	437.43	413.72	384.25	348.91	307.92
45.00	659.76	657.79	651.83	641.73	627.27	608.19	584.23	555.17	520.91	481.47	437.09	388.21	335.48
50.00	816.28	812.70	801.98	784.20	759.50	728.06	690.21	646.35	597.02	542.88	484.73	423.49	360.18
55.00	947.41	942.45	927.67	903.35	869.93	828.05	778.51	722.26	660.37	594.03	524.51	453.07	381.01
60.00	1039.09	1033.22	1015.74	987.06	947.83	898.96	841.54	776.89	706.43	631.68	554.19	475.52	397.12
65.00	1081.89	1075.72	1057.34	1027.18	985.93	934.52	874.14	806.14	732.06	653.53	572.23	489.82	407.91
70.00	1072.40	1066.58	1049.24	1020.68	981.46	932.31	874.20	808.28	735.91	658.58	577.88	495.49	413.08
75.00	1013.58	1008.71	994.12	969.95	936.43	893.92	842.92	784.15	718.50	647.10	571.28	492.57	412.61
80.00	913.96	910.45	899.88	882.15	857.08	824.55	784.46	736.88	682.09	620.64	553.41	481.63	406.81
85.00	785.88	783.95	778.03	767.78	752.67	732.04	705.17	671.42	630.33	581.74	525.94	463.67	396.24
90.00	643.37	643.00	641.70	638.96	633.96	625.61	612.64	593.75	567.71	533.61	491.00	440.06	381.68
95.00	499.96	500.93	503.64	507.52	511.58	514.50	514.63	510.10	499.04	479.75	451.02	412.32	364.02
100.00	366.91	368.87	374.60	383.55	394.78	406.91	418.13	426.25	428.86	423.58	408.42	382.06	344.24
105.00	252.15	254.70	262.26	274.42	290.45	309.16	328.78	347.01	361.12	368.17	365.43	350.82	323.31
110.00	160.00	162.75	170.96	184.49	202.92	225.41	250.47	275.90	298.85	315.99	323.99	319.96	302.11
115.00	91.72	94.32	102.17	115.43	134.08	157.76	185.41	215.14	244.14	268.91	285.59	290.63	281.43
120.00	47.24	49.34	55.86	67.32	84.22	106.77	134.45	165.78	198.19	228.10	251.32	263.70	261.91
125.00	29.10	30.09	33.55	40.81	53.40	72.30	97.54	128.04	161.43	194.17	221.84	239.80	244.05
130.00	32.96	33.07	33.63	35.73	41.61	53.97	74.16	101.52	133.75	167.27	197.45	219.28	228.19
135.00	41.24	41.25	41.29	41.62	43.39	49.39	62.99	85.33	114.62	147.18	178.19	202.31	214.53
140.00	48.75	48.83	49.03	49.30	49.99	52.78	61.08	77.93	103.13	133.39	163.83	188.87	203.15
145.00	55.92	56.05	56.41	56.90	57.58	59.34	64.72	77.15	98.05	125.21	154.00	178.80	194.02
150.00	63.49	63.63	64.05	64.72	65.62	67.25	71.34	80.90	98.05	121.81	148.20	171.82	187.02
155.00	71.87	72.02	72.49	73.31	74.46	76.27	79.92	87.74	101.92	122.32	145.87	167.59	181.99
160.00	81.48	81.67	82.24	83.23	84.67	86.73	90.24	96.94	108.72	125.95	146.41	165.71	178.68
165.00	93.03	93.26	93.98	95.20	96.88	99.11	102.44	108.14	117.78	131.98	149.20	165.75	176.82
170.00	107.50	107.79	108.63	109.97	111.71	113.81	116.61	121.07	128.52	139.72	153.65	167.25	176.11
175.00	125.87	126.16	126.95	128.13	129.48	130.88	132.56	135.31	140.32	148.47	159.13	169.73	176.25

Exhibit EE4
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STANDARD RADIATION PATTERN

(mV/m at one kilometer)													
elevation angle θ													
Azimuth	.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00

180.00	148.46	148.63	149.06	149.55	149.85	149.81	149.64	150.10	152.41	157.50	165.02	172.72	176.91
185.00	174.27	174.18	173.84	173.03	171.54	169.29	166.60	164.34	163.79	165.98	170.66	175.77	177.81
190.00	200.75	200.27	198.78	196.15	192.26	187.25	181.66	176.55	173.35	173.07	175.46	178.46	178.66
195.00	223.99	223.04	220.21	215.47	208.95	201.07	192.68	185.11	179.89	177.98	178.90	180.44	179.25
200.00	239.38	237.98	233.83	227.11	218.22	207.94	197.49	188.47	182.44	180.09	180.59	181.47	179.39
205.00	242.54	240.78	235.62	227.45	217.01	205.44	194.35	185.52	180.37	179.13	180.40	181.43	178.97
210.00	230.29	228.35	222.71	213.99	203.28	192.12	182.40	175.95	173.74	175.26	178.44	180.35	177.96
215.00	201.53	199.61	194.15	186.02	176.66	168.02	162.17	160.61	163.45	169.16	175.10	178.36	176.36
220.00	157.74	156.06	151.42	145.03	138.84	135.18	136.02	141.85	151.35	161.99	170.95	175.68	174.21
225.00	103.07	101.73	98.36	94.84	93.98	98.41	108.84	123.65	140.02	155.14	166.61	172.55	171.55
230.00	44.47	43.28	41.15	42.38	51.38	67.95	88.89	111.09	132.07	149.78	162.56	169.10	168.42
235.00	24.91	23.57	22.08	27.36	41.95	62.23	84.97	107.84	128.88	146.40	158.95	165.37	164.79
240.00	72.04	71.16	69.30	68.71	72.25	81.55	95.81	112.69	129.66	144.52	155.50	161.21	160.61
245.00	110.68	109.69	107.14	104.29	102.96	104.90	110.96	120.53	131.88	142.92	151.66	156.40	155.78
250.00	134.41	133.39	130.60	126.83	123.30	121.40	122.27	126.26	132.71	140.14	146.73	150.63	150.21
255.00	142.20	141.29	138.74	135.03	130.98	127.62	125.99	126.80	130.07	134.99	140.12	143.67	143.83
260.00	135.40	134.72	132.78	129.86	126.47	123.32	121.24	121.00	122.96	126.80	131.47	135.38	136.63
265.00	117.36	116.96	115.84	114.11	112.07	110.16	108.99	109.25	111.42	115.51	120.77	125.78	128.65
270.00	93.31	93.18	92.80	92.22	91.59	91.19	91.46	93.00	96.34	101.61	108.28	115.06	120.03
275.00	70.78	70.72	70.57	70.40	70.37	70.74	71.94	74.56	79.17	85.98	94.53	103.52	110.96
280.00	59.15	58.84	57.98	56.74	55.44	54.56	54.78	56.94	61.85	69.80	80.21	91.58	101.69
285.00	61.82	61.16	59.24	56.24	52.46	48.45	45.11	43.94	46.73	54.39	66.08	79.69	92.50
290.00	70.06	69.28	66.96	63.19	58.08	51.87	45.08	39.02	36.60	41.24	52.91	68.30	83.66
295.00	75.45	74.77	72.71	69.27	64.40	58.04	50.19	41.30	33.39	31.94	41.39	57.82	75.45
300.00	75.39	74.89	73.39	70.86	67.18	62.06	55.10	46.02	35.48	27.66	32.16	48.56	68.09
305.00	71.52	71.11	69.95	68.18	65.81	62.48	57.46	49.84	39.22	27.71	25.67	40.75	61.78
310.00	68.47	67.79	66.01	63.81	61.77	59.84	57.00	51.62	42.35	29.73	21.94	34.50	56.68
315.00	71.27	69.84	66.06	61.37	57.58	55.62	54.44	51.45	44.15	31.84	20.34	29.82	52.91
320.00	80.75	78.35	71.80	63.12	55.41	51.41	50.83	49.94	44.67	33.24	19.78	26.65	50.57
325.00	92.85	89.57	80.48	67.81	55.44	48.06	47.06	47.77	44.27	33.70	19.31	24.94	49.79
330.00	102.50	98.58	87.59	71.90	55.78	45.24	43.64	45.57	43.30	33.21	18.39	24.73	50.69
335.00	105.88	101.58	89.50	72.12	54.01	42.08	40.82	43.79	42.01	31.73	16.87	26.26	53.42
340.00	100.77	96.39	84.11	66.57	48.71	38.19	38.97	42.65	40.35	29.09	15.10	29.94	58.18
345.00	86.66	82.53	71.07	55.17	40.41	34.76	38.63	42.00	37.91	24.97	14.77	36.27	65.19
350.00	65.08	61.61	52.25	40.42	32.67	34.28	39.81	41.02	33.88	19.21	19.02	45.71	74.66
355.00	40.79	38.62	33.52	29.72	31.69	37.44	41.02	38.11	27.10	13.92	29.44	58.69	86.81

RSS used in computing Q = 457.5976
Q used for horizontal pattern = 12.247 (Calculated Q is 12.247)
Corresponding Standard Pattern RMS = 369.6891 mV/m at one KILOMETER
Shortest Tower is Tower 1; it is < 180 Degrees