

Exhibit EE5
WIOJ Proposed Nighttime Antenna System

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Input Parameters:

Field	Tow Ref											
Ratio	Phasing	Spacing	Orient	Switch	Height	TL/Sec	A	B	C	D	Z sub 0	
1.0000	0.000	0.000	.000	0	180.0	0	.0	.0	.0	.0	.00	
.5100	-13.700	205.700	8.000	0	180.0	0	.0	.0	.0	.0	.00	
.4400	8.000	208.500	189.000	0	180.0	0	.0	.0	.0	.0	.00	
1.0000	-95.000	90.000	100.000	0	180.0	0	.0	.0	.0	.0	.00	
.4700	-96.000	231.000	33.200	0	180.0	0	.0	.0	.0	.0	.00	
.5200	-84.000	230.000	166.800	0	180.0	0	.0	.0	.0	.0	.00	

Total RMS (small)= .8545; Computed (no-loss) K=1569.5600
No Loss RMS = 2019.98 mV/m at one KILOMETER
No Loss RMS (for 1 kW) = 368.80 mV/m at one KILOMETER
Adjusted K =1556.5260 Big RMS = 2003.20 mV/m at one KILOMETER
Big RMS (adjusted for 1 kW) = 365.73 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

0.00	76.20	74.11	75.48	89.60	107.16	111.98	95.54	63.76	56.77	97.60	138.57	157.68	149.63
5.00	97.60	88.77	71.65	71.12	89.67	100.97	90.04	61.06	55.88	98.94	141.58	161.51	153.26
10.00	118.64	106.87	79.81	64.73	78.96	92.16	83.24	56.60	59.35	106.55	150.02	169.24	159.27
15.00	120.63	108.60	80.63	63.38	75.14	86.07	75.28	51.98	69.63	121.60	164.66	181.34	167.88
20.00	102.42	92.64	71.95	64.51	76.27	80.90	65.59	52.74	90.17	145.70	186.43	198.30	179.29
25.00	77.45	72.81	66.54	70.71	78.15	73.01	56.69	70.45	124.59	180.83	216.40	220.59	193.68
30.00	71.12	71.37	73.63	76.88	73.95	62.59	67.72	114.20	176.59	229.24	255.68	248.67	211.16
35.00	78.67	78.51	77.25	72.99	68.03	80.30	124.84	188.19	250.20	293.26	305.33	282.87	231.76
40.00	81.45	81.64	83.83	94.05	121.46	169.71	232.59	297.52	349.47	374.97	366.11	323.31	255.39
45.00	168.92	174.87	193.66	227.07	275.22	334.33	395.91	447.99	477.87	475.82	438.35	369.85	281.80
50.00	414.78	422.86	446.62	484.14	531.17	580.41	621.80	644.04	637.31	596.13	521.61	421.89	310.55
55.00	824.49	830.63	847.79	872.14	897.23	914.42	913.93	886.82	827.25	734.62	614.57	478.42	341.00
60.00	1403.39	1403.29	1401.57	1394.06	1374.43	1335.25	1269.54	1172.62	1043.90	888.01	714.77	537.85	372.30
65.00	2139.23	2128.51	2095.35	2037.03	1949.89	1830.55	1677.37	1491.88	1279.73	1050.87	818.68	598.13	403.38
70.00	2994.56	2969.34	2893.75	2768.26	2594.32	2375.24	2117.02	1828.93	1523.48	1215.71	921.73	656.76	433.04
75.00	3906.27	3863.96	3738.66	3535.41	3262.68	2932.42	2559.83	2162.79	1760.78	1373.40	1018.61	710.93	460.00
80.00	4791.09	4731.01	4554.27	4271.18	3898.15	3456.59	2971.39	2468.99	1975.37	1513.93	1103.67	757.79	482.97
85.00	5556.17	5479.97	5256.68	4901.72	4439.12	3899.16	3315.55	2722.31	2150.84	1627.42	1171.46	794.62	500.76
90.00	6113.30	6024.92	5766.54	5357.61	4828.12	4215.22	3559.31	2900.03	2272.61	1705.22	1217.31	819.14	512.39
95.00	6393.79	6299.02	6022.25	5585.16	5020.95	4370.47	3677.69	2985.11	2329.89	1741.02	1237.82	829.73	517.17
100.00	6360.90	6266.54	5990.98	5555.84	4994.25	4346.93	3657.66	2968.75	2317.14	1731.62	1231.33	825.58	514.77
105.00	6016.87	5929.67	5674.80	5271.57	4749.70	4145.99	3500.35	2851.82	2234.99	1677.43	1198.07	806.84	505.26
110.00	5402.82	5328.46	5110.66	4764.60	4313.95	3788.42	3220.99	2644.76	2090.13	1582.41	1140.20	774.55	489.10
115.00	4591.56	4533.80	4363.97	4092.11	3734.22	3311.05	2846.57	2366.13	1894.42	1453.60	1061.52	730.58	467.07
120.00	3674.93	3635.15	3517.42	3326.54	3070.60	2760.93	2411.81	2039.92	1663.35	1300.21	967.07	677.42	440.28
125.00	2748.51	2725.73	2657.44	2544.00	2386.66	2188.27	1954.10	1692.30	1413.98	1132.57	862.58	617.91	409.98
130.00	1897.18	1888.44	1861.27	1813.07	1740.28	1639.44	1508.53	1348.23	1162.93	960.94	753.85	555.04	377.51
135.00	1184.19	1185.25	1187.16	1186.19	1176.59	1151.40	1103.81	1028.74	924.62	794.49	646.24	491.62	344.19
140.00	645.77	651.89	669.29	695.03	723.88	748.39	759.70	749.06	710.03	640.56	544.23	430.14	311.22
145.00	292.36	298.85	318.37	350.54	393.20	441.22	486.23	517.86	526.11	504.24	451.19	372.57	279.62
150.00	117.86	120.31	129.18	148.40	181.73	229.05	284.52	337.61	375.81	388.29	369.30	320.37	250.21
155.00	80.76	79.72	77.23	75.42	80.67	104.17	149.16	205.71	258.69	293.39	299.56	274.42	223.56
160.00	88.89	84.46	74.81	66.66	60.91	57.19	72.30	116.32	171.73	218.56	242.02	235.09	200.05
165.00	149.34	137.48	107.54	75.17	58.13	52.45	45.96	62.74	110.47	161.69	196.01	202.38	179.84
170.00	238.59	220.76	173.29	112.99	65.11	50.33	45.27	39.28	69.97	120.07	160.40	176.00	162.95
175.00	319.12	297.28	238.11	159.07	85.63	49.13	46.31	36.00	45.61	90.89	133.89	155.46	149.30

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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	60.0

180.00	369.01	345.15	279.97	191.19	104.11	50.91	46.17	38.61	33.22	71.55	115.14	140.23	138.72
185.00	378.18	354.24	288.65	198.66	108.98	51.51	46.72	41.37	28.40	59.89	103.01	129.75	131.0
190.00	345.93	323.71	262.85	179.53	97.41	49.09	49.24	43.56	26.97	54.36	96.59	123.54	125.9
195.00	279.30	260.31	208.60	138.94	74.44	48.66	54.09	44.85	26.57	54.03	95.21	121.18	123.3
200.00	191.85	177.36	138.62	89.72	55.97	56.72	59.90	44.26	27.27	58.68	98.47	122.32	122.9
205.00	105.69	97.31	77.31	61.34	63.39	70.08	63.41	40.60	31.73	68.48	106.11	126.66	124.5
210.00	71.18	71.34	73.71	79.63	84.21	79.50	60.85	34.70	43.77	83.76	117.92	133.90	127.9
215.00	104.63	105.18	105.95	104.17	95.86	77.68	50.75	35.86	65.12	104.63	133.63	143.74	132.9
220.00	128.63	126.75	120.52	108.45	89.08	63.31	42.68	57.76	95.43	130.84	152.82	155.78	139.2
225.00	120.99	117.51	107.04	89.98	68.82	53.79	64.81	97.44	133.48	161.66	174.87	169.55	146.5
230.00	94.38	91.38	83.44	74.56	73.24	87.72	115.63	148.28	177.32	195.85	198.91	184.52	154.5
235.00	103.91	104.37	106.96	114.61	129.85	152.48	179.26	205.09	224.30	231.73	223.89	200.05	162.8
240.00	169.61	171.57	177.80	189.00	205.23	225.15	245.71	262.64	271.20	267.32	248.64	215.49	171.2
245.00	241.54	243.69	250.22	261.12	275.67	291.93	306.63	315.63	314.70	300.60	271.98	230.18	179.2
250.00	287.29	289.98	297.96	310.62	326.42	342.53	355.01	359.43	351.85	329.76	292.86	243.55	186.6
255.00	290.42	294.69	307.06	326.03	348.62	370.43	386.21	390.87	380.55	353.45	310.45	255.11	193.2
260.00	247.79	254.73	274.73	304.96	340.29	373.97	398.85	408.79	399.84	370.96	324.22	264.53	198.7
265.00	170.59	180.66	209.96	254.51	306.64	356.61	394.92	414.12	410.00	382.18	333.97	271.60	203.0
270.00	91.19	100.73	133.70	189.92	258.56	325.75	379.07	409.45	412.25	387.58	339.77	276.27	206.1
275.00	92.05	84.41	84.35	131.37	209.25	290.36	357.06	398.18	408.38	387.93	341.88	278.56	207.8
280.00	147.26	130.73	93.99	96.76	169.43	258.13	334.12	383.53	400.15	384.10	340.66	278.61	208.3
285.00	179.90	161.21	113.75	84.52	143.26	233.42	313.58	367.73	388.91	376.80	336.44	276.54	207.5
290.00	177.67	159.48	112.15	76.50	129.03	216.87	296.41	351.63	375.30	366.48	329.51	272.50	205.5
295.00	149.42	133.42	92.41	68.26	123.94	206.44	281.41	334.75	359.28	353.29	320.04	266.65	202.5
300.00	115.70	103.22	73.82	69.83	124.93	198.27	265.96	315.72	340.34	337.19	308.18	259.14	198.5
305.00	101.45	93.35	77.17	82.52	126.67	187.72	247.01	292.91	317.84	318.09	294.07	250.15	193.7
310.00	113.02	107.47	96.11	96.22	123.84	171.15	222.28	265.17	291.43	296.07	277.95	239.91	188.3
315.00	135.52	130.18	117.19	107.01	115.78	147.93	191.31	232.43	261.33	271.50	260.18	228.71	182.3
320.00	161.08	155.27	139.46	119.64	108.93	122.04	156.13	195.92	228.45	245.09	241.30	216.93	176.1
325.00	187.66	181.66	164.40	138.86	112.80	102.58	121.49	158.17	194.34	217.85	222.00	204.99	169.9
330.00	210.04	204.48	187.95	161.47	128.43	99.05	94.71	122.66	160.97	191.04	203.05	193.37	164.0
335.00	219.97	215.59	202.13	179.00	146.65	109.43	82.99	93.41	130.38	165.91	185.28	182.58	158.6
340.00	210.81	208.37	200.18	184.12	158.10	122.50	85.37	74.05	104.37	143.64	169.47	173.12	154.0
345.00	181.05	181.12	179.96	173.84	158.18	130.14	92.67	65.50	84.13	125.15	156.32	165.47	150.6
350.00	136.09	138.71	144.97	150.04	146.98	129.82	97.82	64.02	69.98	111.06	146.45	160.07	148.5
355.00	91.04	94.39	104.71	118.90	128.12	122.74	98.61	64.45	61.25	101.78	140.37	157.34	148.1

RSS used in computing Q = 2671.1560

Q used for horizontal pattern = 66.779 (Calculated Q is 66.779)

Corresponding Standard Pattern RMS = 2104.5320 mV/m at one KILOMETER