

Exhibit 13

Freespace Interference Study based on Vertical Radiation Pattern

Flex-space program based on applying array function to EPA vertical field pattern data

Depression Angle from Antenna	Antenna Relative Field	SSP (Hidden)	Multibay Relative Field	ERP Watts	ERP dBk	Distance to Ground from Antenna (m)	Free Space Signal (dBu)	Signal Strength at Ground (dBu)	Circular Distance From Tower (m)	Distance to Contour using Free Space (m)	Height of Contour above Ground (m)
90	0.135	3.142	0.135	1.823	-27.39	22.00	112.68	112.68	0.00	4.96	17.04
85	0.200	3.130	0.200	4.000	-23.98	22.08	116.06	116.06	1.92	7.35	14.67
80	0.280	3.094	0.280	7.840	-21.06	22.34	118.88	118.88	3.88	10.30	11.86
75	0.355	3.035	0.355	12.603	-19.00	22.78	120.77	120.77	5.89	13.05	9.39
70	0.425	2.952	0.425	18.063	-17.43	23.41	122.10	122.10	8.01	15.63	7.31
65	0.495	2.847	0.495	24.503	-16.11	24.27	123.11	123.11	10.26	18.20	5.50
60	0.565	2.721	0.565	31.923	-14.96	25.40	123.86	123.86	12.70	20.78	4.01
55	0.625	2.573	0.625	39.063	-14.08	26.86	124.26	124.26	15.40	22.98	3.17
50	0.690	2.407	0.690	47.610	-13.22	28.72	124.53	124.53	18.46	25.37	2.56
45	0.745	2.221	0.745	55.503	-12.56	31.11	124.50	124.50	22.00	27.39	2.63
40	0.795	2.019	0.795	63.203	-11.99	34.23	124.24	124.24	26.22	29.23	3.21
35	0.840	1.802	0.840	70.560	-11.51	38.36	123.73	123.73	31.42	30.89	4.28
30	0.880	1.571	0.880	77.440	-11.11	44.00	122.94	122.94	38.11	32.36	5.82
25	0.920	1.328	0.920	84.640	-10.72	52.06	121.87	121.87	47.18	33.83	7.70
20	0.945	1.074	0.945	89.303	-10.49	64.32	120.26	120.26	60.44	34.75	10.12
15	0.975	0.813	0.975	95.063	-10.22	85.00	118.11	118.11	82.11	35.85	12.72
10	0.980	0.546	0.980	96.040	-10.18	126.69	114.69	114.69	124.77	36.04	15.74
5	0.989	0.274	0.989	97.812	-10.10	252.42	108.78	108.78	251.46	36.37	18.83
0	1.000		1.000	100.000	-10.00	22.00					

Distance to Ground Level assumes flat ground or a site where the site level is above average terrain in all azimuths.

Maximum ERP	100 watts	Max dBu at Ground Level	124.53	Lowest Height of Contour (m)	2.56
Radiation Center AG	22 m			Lowest Height of Contour (ft)	8.41
Radiation Center AG	72 ft.	Antenna Type	ERI 100		
Maximum ERP	-10.00 dBk	# of Bays	1		
Protected dBu	85.61 dBu	Bay spacing	1 wavelengths		
Interfering dBu	125.61 dBu	Freq	93.3 MHz		
Free Space Distance	36.77 m	Length	0.00 ft		
	121 ft.		0.00 m		
		Top	22.00 m		

