

Exhibit 12

Freespace Interference Study based on Vertical Radiation Pattern ERI 100-2HW 2 Bay 0.75 Wave Spaced Antenna

Depression Angle from Antenna	Antenna Relative Field	ERP Watts	ERP dBk	Distance to Ground from Antenna (m)	Free Space Signal (dBu)	dB Loss for Reflection	Signal Strength at Ground (dBu)	Circular Distance From Tower (m)	Distance to Contour using Free Space (m)	Height of Contour above Ground (m)
90	0.089	0.475	-33.23	24.00	106.09	0	106.09	0.00	2.64	21.36
85	0.142	1.210	-29.17	24.09	110.11	0	110.11	2.10	4.22	19.80
80	0.189	2.143	-26.69	24.37	112.49	0	112.49	4.23	5.61	18.47
75	0.228	3.119	-25.06	24.85	113.95	0	113.95	6.43	6.77	17.46
70	0.255	3.902	-24.09	25.54	114.69	0	114.69	8.74	7.57	16.89
65	0.265	4.214	-23.75	26.48	114.71	0	114.71	11.19	7.87	16.87
60	0.254	3.871	-24.12	27.71	113.94	0	113.94	13.86	7.54	17.47
55	0.220	2.904	-25.37	29.30	112.21	0	112.21	16.80	6.53	18.65
50	0.159	1.517	-28.19	31.33	108.81	0	108.81	20.14	4.72	20.38
45	0.070	0.297	-35.28	33.94	101.03	0	101.03	24.00	2.09	22.52
40	0.045	0.123	-39.12	37.34	96.36	0	96.36	28.60	1.34	23.14
35	0.184	2.031	-26.92	41.84	107.57	0	107.57	34.28	5.46	20.87
30	0.338	6.855	-21.64	48.00	111.66	0	111.66	41.57	10.03	18.98
25	0.500	15.000	-18.24	56.79	113.60	0	113.60	51.47	14.84	17.73
20	0.656	25.820	-15.88	70.17	114.12	0	114.12	65.94	19.48	17.34
15	0.891	47.633	-13.22	92.73	114.35	0	114.35	89.57	26.45	17.15
10	0.905	49.142	-13.09	138.21	111.02	0	111.02	136.11	26.87	19.33
5	0.976	57.155	-12.43	275.37	105.69	0	105.69	274.32	28.98	21.47

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

Maximum ERP	60	watts	Max dBu at Ground Level	114.71	Lowest Height of Contour (m)	16.87
Radiation Center AG	24	m			(ft)	55.34
Radiation Center AG	79	ft.				
Maximum ERP	-12.22	dBk				
Protected dBu	85.25	dBu				
Interfering dBu	125.25	dBu				
Free Space Distance	29.69	m				
	97.38	feet				