

Exhibit 12

PA Philadelphia

Freespace Interference Study based on Vertical Radiation Pattern Scala HDCA5-CP - 1 Bay Antenna

Depression Angle from Antenna	Antenna 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	0.157	1.824	-27.39	72.00	102.38	102.38	0.00	26.85	45.15
85	0.153	1.732	-27.61	72.28	102.13	102.13	6.30	26.17	45.93
80	0.141	1.471	-28.32	73.11	101.32	101.32	12.70	24.12	48.25
75	0.134	1.329	-28.77	74.54	100.71	100.71	19.29	22.92	49.86
70	0.138	1.409	-28.51	76.62	100.72	100.72	26.21	23.60	49.82
65	0.150	1.665	-27.79	79.44	101.13	101.13	33.57	25.66	48.75
60	0.203	3.049	-25.16	83.14	103.37	103.37	41.57	34.72	41.93
55	0.270	5.395	-22.68	87.90	105.36	105.36	50.41	46.18	34.17
50	0.363	9.751	-20.11	93.99	107.35	107.35	60.42	62.09	24.44
45	0.458	15.523	-18.09	101.82	108.67	108.67	72.00	78.34	16.61
40	0.553	22.630	-16.45	112.01	109.48	109.48	85.81	94.59	11.20
35	0.643	30.595	-15.14	125.53	109.80	109.80	102.83	109.98	8.92
30	0.727	39.111	-14.08	144.00	109.68	109.68	124.71	124.35	9.82
25	0.802	47.597	-13.22	170.37	109.07	109.07	154.40	137.18	14.03
20	0.871	56.139	-12.51	210.51	107.95	107.95	197.82	148.98	21.05
15	0.928	63.728	-11.96	278.19	106.08	106.08	268.71	158.73	30.92
10	0.966	69.054	-11.61	414.63	102.96	102.96	408.33	165.23	43.31
5	0.986	71.943	-11.43	826.11	97.15	97.15	822.96	168.65	57.30

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

Maximum ERP	74 watts	Max dBu at Ground Level	109.80	Lowest Height of Contour (m)	8.92
Radiation Center AG	72 m			Lowest Height of Contour (ft)	29.25
Radiation Center AG	236 ft.				
Maximum ERP	-11.31 dBk				
Protected dBu	70.95 dBu				
Interfering dBu	111.0 dBu				
Free Space Distance	171.05 m				