

Engineering Statement

In Support of a Minor Amendment to an Application for a Construction Permit

WLRS, Sheperdsville, KY, Channel 286A

WLRS Terrain-Contour Study

Reference Coordinates:

North Latitude: 38-02-54

West Longitude: 85-46-04

Azimuth °T.	ERP = 2.20 kW Ave. Elev. 3 to 16 km	FM - 2-6 Tables Effective Antenna Height	ERP (dBk)	F(50-50) Distance to 70 dBu Contour	F(50-50) Distance to 60 dBu Contour
	Meters AMSL	Meters AAT		km	km
0	154.9	151.1	3.424	15.4	27.0
5	154.5	151.5	3.424	15.4	27.1
10	156.6	149.4	3.424	15.3	26.9
15	156.3	149.7	3.424	15.3	26.9
20	160.4	145.6	3.424	15.1	26.6
25	162.9	143.1	3.424	14.9	26.4
30	172.9	133.1	3.424	14.3	25.6
35	175.6	130.4	3.424	14.2	25.4
40	171.8	134.2	3.424	14.4	25.7
45	176.4	129.6	3.424	14.1	25.3
50	181.7	124.3	3.424	13.8	24.9
55	182.6	123.4	3.424	13.8	24.8
60	178	128.0	3.424	14.1	25.2
65	173.8	132.2	3.424	14.3	25.5
70	172.1	133.9	3.424	14.4	25.6
75	166.3	139.7	3.424	14.7	26.1
80	164.6	141.4	3.424	14.8	26.3
85	165.5	140.5	3.424	14.8	26.2
90	164.8	141.2	3.424	14.8	26.2
95	167.4	138.6	3.424	14.7	26.0
100	167.9	138.1	3.424	14.6	26.0
105	163.3	142.7	3.424	14.9	26.4
110	161.2	144.8	3.424	15.0	26.5
115	153.9	152.1	3.424	15.5	27.1
120	151.7	154.3	3.424	15.6	27.3
125	155.7	150.3	3.424	15.4	27.0
130	159.4	146.6	3.424	15.1	26.7
135	162	144.0	3.424	15.0	26.5
140	156.1	149.9	3.424	15.3	26.9
145	149.2	156.8	3.424	15.8	27.5
150	141.7	164.3	3.424	16.2	28.1
155	142.4	163.6	3.424	16.2	28.0

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ERP = 2.20 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Ave. Elev.		Effective		Distance to	Distance to
Azimuth	3 to 16 km	Antenna Height	ERP	70 dBu Contour	60 dBu Contour
°T.	Meters AMSL	Meters AAT	(dBk)	km	km
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160	140.5	165.5	3.424	16.3	28.2
165	147.4	158.6	3.424	15.9	27.6
170	151.1	154.9	3.424	15.6	27.3
175	152.1	153.9	3.424	15.6	27.3
180	166.4	139.6	3.424	14.7	26.1
185	169.9	136.1	3.424	14.5	25.8
190	161.9	144.1	3.424	15.0	26.5
195	165.9	140.1	3.424	14.8	26.2
200	185.8	120.2	3.424	13.6	24.5
205	197.3	108.7	3.424	13.0	23.5
210	205	101.0	3.424	12.5	22.7
215	206.8	99.2	3.424	12.4	22.5
220	204.4	101.6	3.424	12.6	22.7
225	201.2	104.8	3.424	12.8	23.1
230	194.3	111.7	3.424	13.2	23.8
235	191.3	114.7	3.424	13.3	24.1
240	187.4	118.6	3.424	13.5	24.4
245	185.7	120.3	3.424	13.6	24.5
250	176.6	129.4	3.424	14.1	25.3
255	150	156.0	3.424	15.7	27.4
260	164.2	141.8	3.424	14.9	26.3
265	167.3	138.7	3.424	14.7	26.0
270	171	135.0	3.424	14.5	25.7
275	167.1	138.9	3.424	14.7	26.1
280	168.8	137.2	3.424	14.6	25.9
285	168.3	137.7	3.424	14.6	26.0
290	163.8	142.2	3.424	14.9	26.3
295	164.2	141.8	3.424	14.9	26.3
300	167.7	138.3	3.424	14.6	26.0
305	163.2	142.8	3.424	14.9	26.4
310	166.3	139.7	3.424	14.7	26.1
315	169.3	136.7	3.424	14.6	25.9
320	161.9	144.1	3.424	15.0	26.5
325	167.6	138.4	3.424	14.7	26.0
330	173.5	132.5	3.424	14.3	25.5
335	175.3	130.7	3.424	14.2	25.4
340	176.9	129.1	3.424	14.1	25.3
345	172.5	133.5	3.424	14.4	25.6
350	168.7	137.3	3.424	14.6	25.9
355	160.9	145.1	3.424	15.0	26.5
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