

**Engineering Statement**

**In Support of an**

**Application for a Construction Permit**

**WCYN-FM, Cynthiana, Kentucky**

**WCYN-FM Terrain-Contour Study**

<u>Azimuth</u>	<u>ERP (dBk)</u>	<u>HAAT (m)</u>	<u>Distance to F(50,50) 70 dBu</u>	<u>Distance to F(50,50) 60 dBu</u>
0.0	2.788	126.7	13.5	24.3
5.0	2.788	125.0	13.4	24.1
10.0	2.788	128.4	13.6	24.4
15.0	2.788	129.6	13.6	24.5
20.0	2.788	130.6	13.7	24.6
25.0	2.788	127.7	13.5	24.3
30.0	2.788	125.5	13.4	24.2
35.0	2.788	129.0	13.6	24.4
40.0	2.788	130.6	13.7	24.6
45.0	2.788	128.5	13.6	24.4
50.0	2.788	126.8	13.5	24.3
55.0	2.788	131.1	13.7	24.6
60.0	2.788	128.8	13.6	24.4
65.0	2.788	121.9	13.2	23.9
70.0	2.788	118.9	13.1	23.6
75.0	2.788	115.8	12.9	23.4
80.0	2.788	112.7	12.7	23.1
85.0	2.788	112.8	12.8	23.1
90.0	2.788	114.1	12.8	23.2
95.0	2.788	115.3	12.9	23.3
100.0	2.788	109.4	12.6	22.8
105.0	2.788	106.9	12.4	22.5
110.0	2.788	108.7	12.5	22.7
115.0	2.788	109.7	12.6	22.8
120.0	2.788	110.3	12.6	22.9
125.0	2.788	111.7	12.7	23.0
130.0	2.788	117.3	13.0	23.5
135.0	2.713	119.5	13.1	23.6
140.0	2.639	123.3	13.2	23.8
145.0	1.651	125.9	12.6	22.9
150.0	0.663	131.2	12.2	22.0
155.0	-0.344	130.4	11.5	20.9
160.0	-1.351	134.7	11.0	19.9
165.0	-2.344	129.3	10.3	18.5
170.0	-3.338	122.4	9.4	16.9
175.0	-4.331	121.4	8.9	15.8

Continued on the next page

<u>Azimuth</u>	<u>ERP (dBk)</u>	<u>HAAT (m)</u>	<u>Distance to F(50,50) 70 dBu</u>	<u>Distance to F(50,50) 60 dBu</u>
180.0	-5.325	120.6	8.3	14.7
185.0	-6.313	119.7	7.9	13.9
190.0	-7.302	117.6	7.4	12.9
195.0	-8.260	108.2	6.7	11.8
200.0	-9.219	109.8	6.4	11.3
205.0	-9.219	108.5	6.4	11.2
210.0	-9.219	110.0	6.4	11.3
215.0	-9.219	100.1	6.1	10.8
220.0	-9.219	101.4	6.2	10.9
225.0	-8.260	106.4	6.7	11.7
230.0	-7.302	110.0	7.1	12.5
235.0	-6.313	112.8	7.6	13.5
240.0	-5.325	115.2	8.2	14.4
245.0	-4.331	112.6	8.6	15.2
250.0	-3.338	103.4	8.7	15.3
255.0	-2.344	101.9	9.1	16.3
260.0	-1.351	103.9	9.7	17.5
265.0	-0.344	108.1	10.5	19.1
270.0	0.663	106.4	11.0	20.0
275.0	1.651	109.6	11.8	21.5
280.0	2.639	114.4	12.7	23.1
285.0	2.713	114.7	12.8	23.2
290.0	2.788	116.5	13.0	23.4
295.0	2.788	120.9	13.2	23.8
300.0	2.788	124.2	13.3	24.1
305.0	2.788	127.1	13.5	24.3
310.0	2.788	131.4	13.7	24.6
315.0	2.788	135.4	13.9	24.9
320.0	2.788	134.3	13.9	24.9
325.0	2.788	133.2	13.8	24.8
330.0	2.788	144.5	14.4	25.7
335.0	2.788	150.4	14.8	26.1
340.0	2.788	144.5	14.4	25.7
345.0	2.788	139.1	14.1	25.2
350.0	2.788	132.8	13.8	24.7
355.0	2.788	123.9	13.3	24.0