

**Engineering Statement  
In Support of an  
Application for a Construction Permit**

**WRQK, Canton, Ohio  
Channel 295B**

**WRQK Terrain-Contour Study**

**Reference Coordinates:**

**North Latitude: 40-49-22**

**West Longitude: 81-25-40**

Azimuth °T.	ERP = 27.5 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 54 dBu Contour
	Meters AMSL	Meters AAT		km	km
0	340.8	95.2	14.393	23.2	50.8
5	347.3	88.7	14.393	22.4	49.4
10	353.7	82.3	14.393	21.6	48.0
15	356.0	80.0	14.393	21.3	47.6
20	353.5	82.5	14.393	21.6	48.1
25	350.1	85.9	14.393	22.0	48.8
30	349.7	86.3	14.393	22.1	48.9
35	350.4	85.6	14.393	22.0	48.8
40	348.8	87.2	14.393	22.2	49.1
45	342.2	93.8	14.393	23.0	50.5
50	342.5	93.5	14.393	23.0	50.4
55	346.1	89.9	14.393	22.5	49.7
60	348.7	87.3	14.393	22.2	49.1
65	349.8	86.2	14.393	22.1	48.9
70	349.7	86.3	14.393	22.1	48.9
75	348.7	87.3	14.393	22.2	49.1
80	341.9	94.1	14.393	23.1	50.5
85	338.4	97.6	14.393	23.5	51.2
90	337.5	98.5	14.393	23.6	51.4
95	338.9	97.1	14.393	23.4	51.1
100	344.5	91.5	14.393	22.7	50.0
105	346.3	89.7	14.393	22.5	49.6
110	345.8	90.2	14.393	22.6	49.7
115	344.2	91.8	14.393	22.8	50.1
120	339.6	96.4	14.393	23.3	51.0
125	340.0	96.0	14.393	23.3	50.9
130	340.5	95.5	14.393	23.2	50.8
135	338.2	97.8	14.393	23.5	51.3
140	339.9	96.1	14.393	23.3	50.9
145	334.3	101.7	14.393	23.9	52.0
150	325.2	110.8	14.393	24.9	53.6
155	332.7	103.3	14.393	24.1	52.3

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Exhibit E, Figure 2

ERP = 27.5 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Azimuth °T.	Ave. Elev.	Effective Antenna Height	ERP (dBk)	Distance to	Distance to
	3 to 16 km Meters AMSL			70 dBu Contour km	54 dBu Contour km
160	337.5	98.5	14.393	23.6	51.4
165	333.6	102.4	14.393	24.0	52.1
170	328.4	107.6	14.393	24.6	53.1
175	330.2	105.8	14.393	24.4	52.7
180	338.7	97.3	14.393	23.4	51.2
185	331.7	104.3	14.393	24.2	52.5
190	326.1	109.9	14.393	24.8	53.5
195	330.6	105.4	14.393	24.3	52.7
200	328.6	107.4	14.393	24.6	53.0
205	327.9	108.1	14.393	24.6	53.1
210	323.8	112.2	14.393	25.0	53.8
215	320.5	115.5	14.393	25.4	54.4
220	319.7	116.3	14.393	25.4	54.5
225	318.4	117.6	14.393	25.6	54.7
230	317.3	118.7	14.393	25.7	54.9
235	318.6	117.4	14.393	25.5	54.7
240	320.1	115.9	14.393	25.4	54.4
245	322.9	113.1	14.393	25.1	54.0
250	325.1	110.9	14.393	24.9	53.6
255	324.6	111.4	14.393	25.0	53.7
260	323.1	112.9	14.393	25.1	53.9
265	323.3	112.7	14.393	25.1	53.9
270	320.6	115.4	14.393	25.4	54.4
275	319.1	116.9	14.393	25.5	54.6
280	322.9	113.1	14.393	25.1	54.0
285	317.2	118.8	14.393	25.7	54.9
290	318.6	117.4	14.393	25.5	54.7
295	319.0	117.0	14.393	25.5	54.6
300	317.7	118.3	14.393	25.6	54.8
305	323.1	112.9	14.393	25.1	54.0
310	332.9	103.1	14.393	24.1	52.3
315	331.9	104.1	14.393	24.2	52.4
320	329.0	107.0	14.393	24.5	53.0
325	330.6	105.4	14.393	24.3	52.7
330	332.8	103.2	14.393	24.1	52.3
335	336.2	99.8	14.393	23.7	51.6
340	347.0	89.0	14.393	22.4	49.5
345	352.4	83.6	14.393	21.8	48.3
350	352.0	84.0	14.393	21.8	48.4
355	346.5	89.5	14.393	22.5	49.6